

IP Kamera 9077SPD-I/O

User Manual



9077SPD - I



9077SPD - O

Release Date: 7/28/2011
Manual Version: V1.2.1.9

Warning: Any changes made to this equipment without permission may cause damages to the device!

IMPORTANT NOTICE

1. IP Kamera 9077SPD-I/O was designed for indoor use only. It is the responsibility of the user for any possible damages caused by outdoor use, especially in the rain.
2. Please use the power adapter provided by the dealer, the manufacturer responsibility for the possible damage from using power adapters not.
3. Do not shake the IP Kamera 9077SPD-I/O in any fashion
4. Please contact the dealer If IP Kamera 9077SPD-I/O is not working properly.

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1.) Welcome



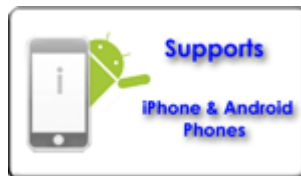
Introduction

The 9077 Speed Dome IP Camera is a one of a kind device. With 360° pan and 120° tilt controls the world in your hands. It's easy to control user interface can be accessed from any web page, any smart phone (iPhone or android), or any computer.

Furthermore, with 1280 x 720P HD picture high crisp quality pictures and recordings can be created. In addition to the 8 GB built in memory, you can view your recordings live from the built in web page or download them to view them later.

Also with features like RTSP, Motion detection, Schedule recording, RSS notification, My Web & Ez Blog Technology, CNT, and more, this device will make your life much safer and easier. With PoE technology, just simply plug and play. The Hassle free 9077SPD is perfect for quick installation and saves incredible installation time. Innovative features like My Web and EZ Blog, customization of this IP Kamera has never been easier.

Aviosys definitely welcomes you to try out IP Kamera 9077SPD. This device will bring ease of mind as well as convenience for a great price.



Minimum System Requirements

CPU Minimum Requirements

- Intel(R), Pentium(R), DUAL Core (D), CPU 3.0GHz or equivalent
- Operating Systems: WINDOWS Operating Systems (IE5.0+SPI)
- 512 MB system memory or above
- Video Card: 3D hardware accelerator card required – 100% DirectX 9.0c compatible
- 10/100 Ethernet switch/hub
- Sound Card: DirectX 9.0c compatible sound card
- Ethernet network port/card
- Network cable
- Internet (For remote access) or Ethernet Network (Internal Network use)

Software

- VLC media player 0.8.6b or above.
- Windows XP Service Pack 2 or above.

2.) Product Overview

Features

1. Tri-Mode Camera (MPG4-1/MPEG4-2/M-Jpeg)
2. 360° pan 120° tilt controls with Digital Zoom features.
3. Panorama Recording Mode - Takes up to 8 pictures for a 360° Panoramic view.
4. Email Capabilities (**Supports Gmail, Yahoo, & Hotmail**)
5. Built In 8GB Embedded SD memory
6. Built-in electronic IR cut filter with scheduler
7. Advance Motion detection trigger AVI /Jpeg save on FTP / SD card or Email
8. 3 layers (Admin, Operator, and User) Password protected
9. Resolution from CIF 352x192 up to **HD 1280x720P**
10. Supports NTP protocol to get correct time schedule.
11. RSS notification for fast device status
12. Power Over Ethernet (PoE 802.3af)
13. Supports HTTP CGI command set. Easy for system integration
14. Easily find your device by name only with www.myipedit.com or IP Service.
15. Watchdog / Event log design
16. Automatic alarm recording buffer
17. CNT Technology – Just Plug and Play no need to port forward
18. Digital Zoom feature
19. Media Player - For on spot video viewing.
20. Scheduler recording capabilities & Email Capabilities
21. EZ blog & My Web technology for quick webpage customization and integration
22. Supports: HTTP Web Server (HTTP), SSL, FTP client, SMTP client, NTP client, DHCP client, UPnP client, RTSP over UDP, RTP

Specification

Casing: Light grey

Case Color: Black and White

Weight: 361.8 Grams

Dimensions (W x L x H): 55 X 55 X 160mm

Operating Conditions: 5 – 50 °C (41 – 122 °F)

Humidity: 20 – 80% RH (Non-condensing)

Power: AC Adaptor

Input: 100-240V~0.3A MAX 10-20VA, 47-63Hz

Output: 240mA / 12V 1.0A Max 5W

Package Contents

- ☐ 9077SPD-I/O Unit x 1
- ☐ 9077SPD-I/O Installation CD
- ☐ AC Adaptor x 1
- ☐ 9077SPD-I/O Ethernet Cable x 1
- ☐ 9077SPD-I/O Installation tool kit x 1

3.) Hardware description

Cable Interface

Cable	
Device Reset:	Reset to Manufacturer Default: Hold Reset button for 7 -10 Seconds and the device will reset to manufacturer default
RJ45 Ethernet Female:	
DC 12V Power Input:	Plug in the Power Adapter to the DC 12V 240mA / 12V 1.0A Max 5W

Device Outlook



Cable Interface

Note: To prevent any damages to this device, do not use any cable not certified by the manufacture.

RJ45 Female: Connect internet connection to this part of the cable

AC Adapter Cable: Connect the power adapter to this part. If PoE is being used then no power will be required on this cable.

RJ45 Connect to 9077SPD: This part of the cable goes into the bottom of the 9077SPD

9077SPD Interface

Outer Casing: The outer case of the 9077SPD can be removed to reset the device and change the lens.

Default Calibrated Point: The default calibrated point is the home point of the device.

9077SPD Base Plate: Base plate is where the device will be connected to.

4.) Setting up the device

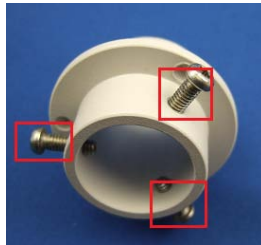
Hardware setup

Attaching the base

- 1.) Carefully take out the contents of the box.
- 2.) You will find the follow items:

- ☐ 9077SPD-I/O Unit x 1
- ☐ 9077SPD-I/O Base Stand x 1
- ☐ 9077SPD-I/O Installation CD x 1
- ☐ AC Adaptor x 1
- ☐ 9077SPD-I/O Ethernet Cable x 1
- ☐ 9077SPD-I/O Installation tool kit x 1

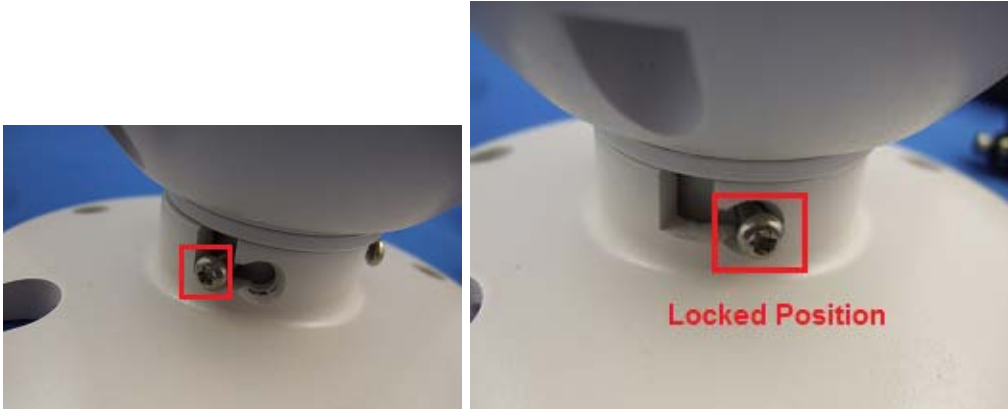
- 3.) Use the tool that was provided and slowly loosen the screws so that the base of the 9077SPD can be attached to the bottom of the device. You can unscrew the ring connector if you feel it is easier to loosen the screws.



- 4.) After loosening the screws make sure that the ring is attached back on the 9077SPD.
- 5.) Then take the Ethernet cable and push the cable and protective rubber cover through the base first, then plug in the Ethernet. The 9077SPD-O will not have the rubber cover. (Picture on Right)



6.) Connect the base of the 9077SPD to the body, make sure the screw is fitted into the socket and tighten the screws.



Setting up the device

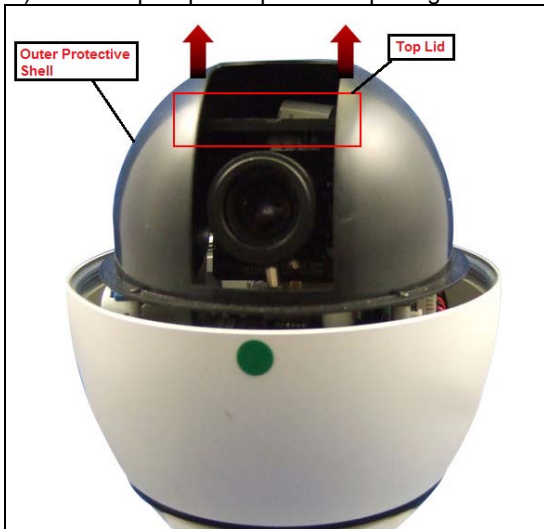
Now that the device is ready, it is time to connect the 9077SPD to your network. Follow the following steps:

- 1.) Connect the power to the 9077SPD. Note: If no network connection is found the device will pan and will not stop until network has been established.
- 2.) Then connect the RJ45 cable to the 9077SPD.
- 3.) Once the RJ45 cable is connected your hardware is setup and all you need to do know is to install the necessary software.

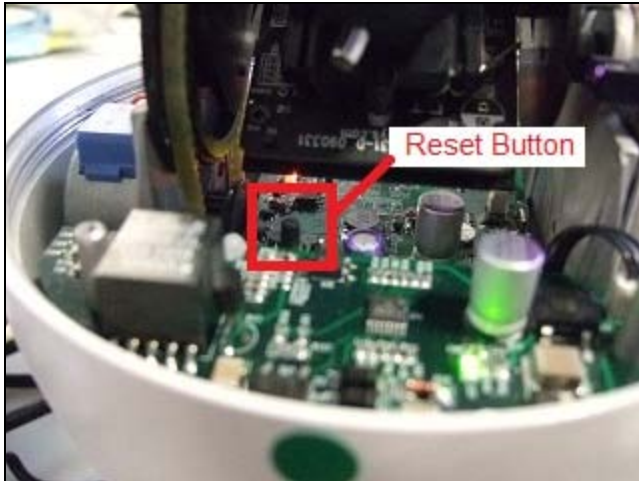
Hard Reset the device

Follow the following steps:

- 1.) Tilt the top lid plate upwards exposing the inner PCB board of the 9077



- 2.) Hold and press the reset button for 7-10 seconds and then release. This will set the device back to manufacturer default.



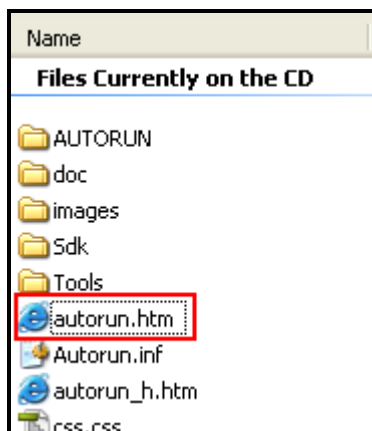
3.) Wait for about 1 minute for the operating system to load then open IP Edit and rescan for devices.

Software Setup

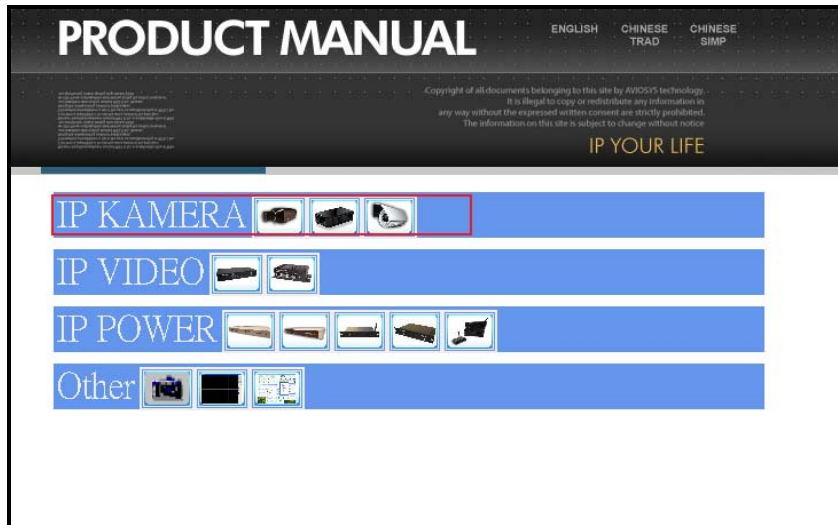
The software for the device is located on the **Media Link-IP Family CD** that came with the device. IP Kamera Pack is located on the main page of the CD. Please follow the directions carefully and install the necessary files

Installing Required Software

- 1.) First place the **Media Link-IP Family CD** that came with your device into your CD/DVD Rom drive. The CD should auto run but if it does not go to the CD/DVD Rom drive and select the file "autorun.html".



- 2.) Select the IP Kamera section and pick the IP Kamera and Model that you are using.



- 3.) Download the following software and save them to the appropriate locations.
 - a. **IP Edit** - Device search tool which allows you to modify IP settings, find your on the local network and IP Service.
 - b. **Surf 16 CH** – 16 Channel DVR, Monitoring, & Recording Software. Views up to 16 channels on one screen.
 - c. **Surf Pop** – Surf Pop is a new interactive IP Kamera monitoring software
- 4.) Once installation is complete please double click the **IP Edit** to configure and search for your device.

Installing VLC Codec

The files that are recorded by the 9077SPD-I/O requires this codec so that you are able to view the view. Download the latest version of the VLC codec and install it into your computer. You can find the latest version of the codec from here

<http://www.videolan.org/>

IP Edit

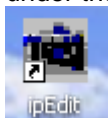
IP Edit is a tool designed to search for Aviosys products that are on the network. With this tool you can edit some specified fields which allow the device to be found and accessed.

IP Service allows users to find their device on the internet without having to remember long IP Addresses. With IP Service all you need to simply remember the name of your device and search for it on IP Service.

For example, you can type "Jerry's IP Cam" and IP service will do the rest. It also acts like a DYNDNS server in that if you have a dynamic IP Address IP service will continually update the new IP.

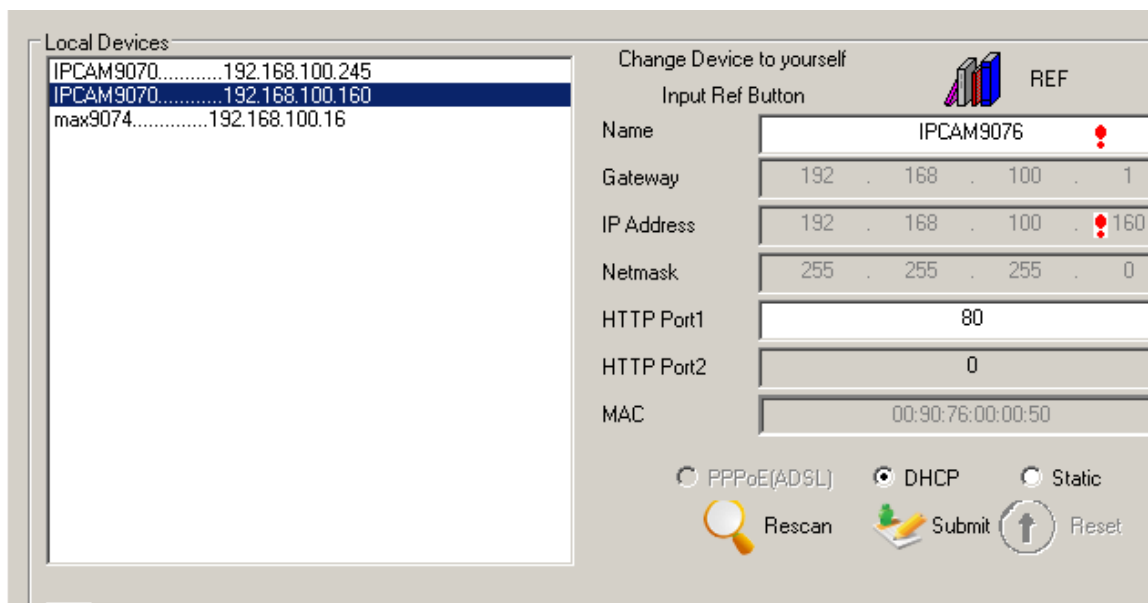
Easy Setup (DHCP activated)

- 1.) Check that the hardware has been properly connected and powered on.
Note: Please allow the IP Kamera 9077SPD-I/O to load before using IP Edit.
- 2.) Double click the IP Edit icon to start the program. The 9077SPD-I/O will automatically receive an IP Address from the DHCP server or Router. You will automatically find the device under the local device section of IP Edit



If no DHCP server is available you must manually set the IP address to match your networks settings. Please see the custom setup page below more details on how to manually set your device.

- 3.) Simply double click on your device in the local device section and a internet explorer window will appear, and start connecting to your device.



All devices will need to be on the same network if not the device cannot be accessed and will not be detected.

Custom Setup (Manual Setup)

When no DHCP is found on the device, the 9077SPD-I/O will be given a static IP Address.

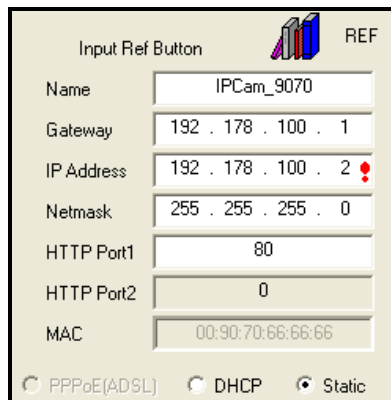
Default IP: 192.168.1.168 (When 9077SPD-I/O is connected to PC directly)


Default Login: admin

Default Password: 12345678

- 1.) Highlight the 9077SPD-I/O device in the local devices section of IP Edit. On the right side of IP Edit all network information of the device will be displayed.

If the device is not on the same network a Red Exclamation mark  will appear in the IP Network information section

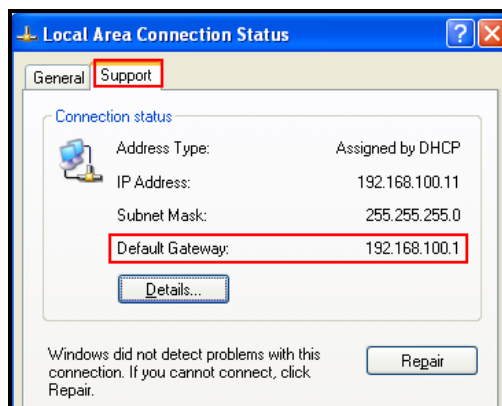


Input Ref Button	
Name	IPCam_9070
Gateway	192 . 178 . 100 . 1
IP Address	192 . 178 . 100 . 2 
Netmask	255 . 255 . 255 . 0
HTTP Port1	80
HTTP Port2	0
MAC	00:90:70:66:66:66

☐ PPPoE(ADSL) ☐ DHCP ☒ Static

- 2.) To setup the device, you will need type in the correct **Gateway** and **IP Address**.

The Gateway Address: The gateway address can be obtained in Windows under the network connections page



Local Area Connection Status

General **Support**

Connection status

Address Type: Assigned by DHCP

IP Address: 192.168.100.11

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.100.1

Details...

Windows did not detect problems with this connection. If you cannot connect, click Repair.

Repair

IP Address: Make sure the first 3 sections of the IP Address matches the gateway address.
Example: Gateway Address – 192.168.1.1 IP Address – 192.168.1.xxx

- 3.) Once the Default Gateway information has been obtained, enter the correct information into IP Edit and hit the submit button.

Device	Name	Mac Address	Port	IP Address
9070-...	maxhome9070	009070000017	8088	123.252.51.9
9070-...	IR920_9070	009070000014	80	61.229.48.100
9070-...	cloud9070	009070000028	80	118.169.132.237
9070-...	Winona9070	009070000001	80	218.169.107.66

Local Devices

9258WIFI	192.168.1.147
IR920_9070	192.168.1.214
IPC AM9070	192.168.1.80
06-IP9258	192.168.1.144
IP9258PRO	192.168.1.31
9100	192.168.1.210
	192.168.1.218

J1.07a_90600	192.168.1.137
Cam_location_93	192.168.1.47
V1.07_90601	192.168.1.136
J1.17_9060SL1	192.168.1.201

Input Ref Button REF

Name	IPC AM9070
Gateway	192 . 168 . 1 . 1
IP Address	192 . 168 . 1 . 80
Netmask	255 . 255 . 255 . 0
HTTP Port1	80
HTTP Port2	0
MAC	00:90:70:a1:a2:a3

☐ PPPoE(ADSL)
 ☐ DHCP
 ☒ Static

4.) Then hit the rescan button on IP Edit to confirm the changes have been made.

Focusing the Lens of IP Kamera

Note: Make sure that you have setup the device so you can see it on the monitor first. Once you have done that you can easily focus the lens.

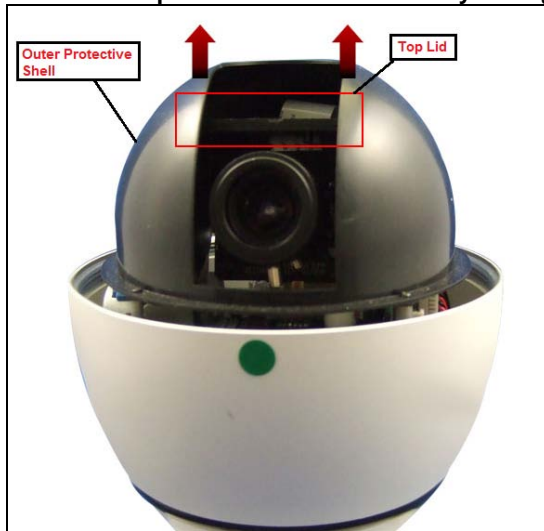
To focus the lens of the IP Kamera please follow the following steps:

1.) Unscrew the lid of the of the 9077 by turning the lid in a counter clockwise direction

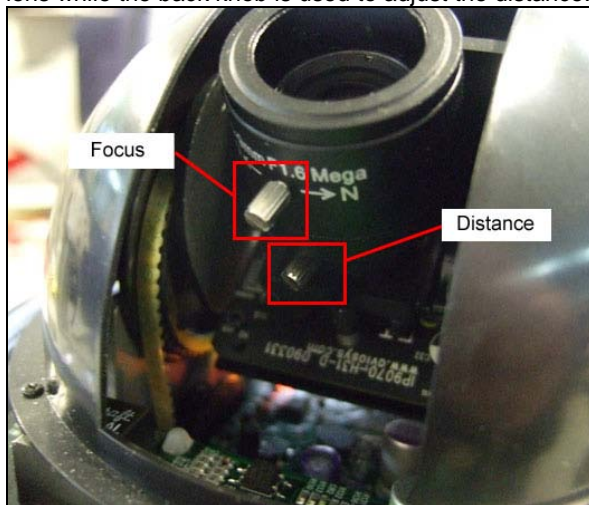


2.) Manually tilt the lens upwards by pulling on the top lid plate of the 9077. If you find it difficult to move the top lid you can use a small screwdriver to remove the **outer black protective shell** that is around the lens.

Note: Do not pull on the lens itself it may damage the devices construction.



3.) Once the top Lid plate has been moved upwards you can access the focus and the distance of the varifocal lens. To focus the lens by use the two knobs that are on the lens. If the lens does not turn slightly turn the knobs in a counter clockwise direction to loosen the knob. The front knob controls the focus of the lens while the back knob is used to adjust the distance.



4.) After the device has been focused, if you have removed the Outer protective shell, screw the shell back on. Then take the outer casing for the 9077 and lock it on the device by turning it in a clock wise direction.

IP Service

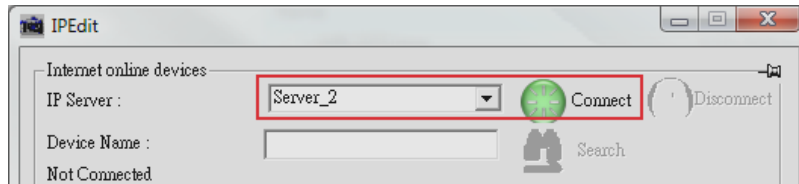
Using IP Service

How to use IP Service on IP Edit:

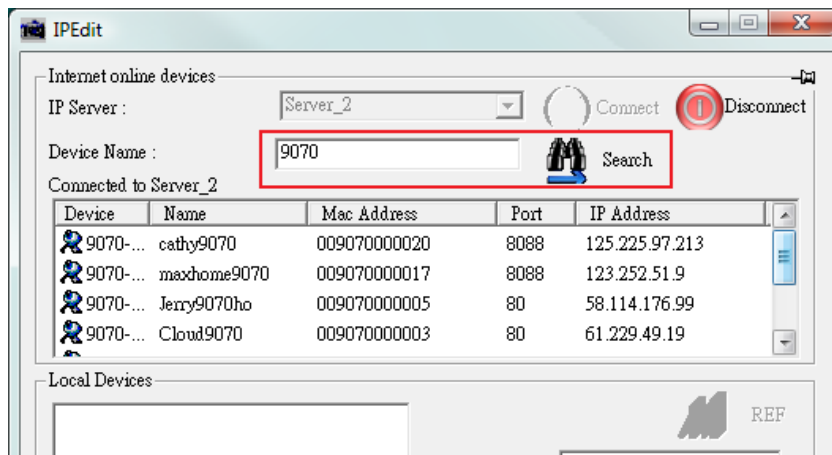
IP service allows the user to directly connect to his / her device through the internet without having to remember long confusing IP Address. Instead you only need to remember the name of the device that the you have selected. Then the user can connect to IP Service, type in the device name, and connect directly to the device.

Note: The IP Kamera 9077SPD-I/O requires you to select Server 2 on IP Service

Open IP Edit , the device will show up in the Local Device Section. If you have not selected a name for the device, please refer to the section on the manual labeled: "Naming your device". To start IP Service, **Hit the green connect button on the top of IP Edit .**



3.) Once you have been connected search for your device by typing in at least the first 3 letters that you named your device with. Then hit the search button.



4.) Double click on your device and an Internet Explorer window will appear connecting directly to your device.

Note: It is crucial to have the IP Address of the device port forwarded from the router that you are using so you can connect to your device from anywhere. Please refer to your routers user manual on how to port forward your device.

www.mypedit.com

www.mypedit.com is a new feature that allows Aviosys users to easily find there device on the internet . Simply by typing in the name of your device you will not have to remember long IP addresses to get to your device.

Start by going to www.mypedit.com

Here you will be able to select from 2 methods of IP Service

- 1.) IP Service through Aviosys servers
- 2.) IP Service through Google cloud

Note: Make sure that the enable IP Service feature is turned on under the network settings of your device.

Searching with IP Service:






◦ [IP Service \(Aviosys\)](#)

To use IP Service:

- 1.) Click on the image and you will be taken to the IP Service webpage.
- 2.) Depending on which server you selected in the IP Service settings, you will need to select from server 1 or server 2.

Aviosys Inc. IP Family Browser

 [Search By Server-1 \(122.116.138.129\)](#)  [Search By Server-2 \(122.116.137.123\)](#)

ENGLISH 繁體中文 简体中文 

Device	Name	Country	City	Mac_Address	IP_Address:Port
Input Device Name : <input type="text"/> <input type="button" value="submit"/> <input type="button" value="reset"/> <input type="button" value="exit"/>					

- 3.) Type in the name that you have selected for your device and hit the submit button.

Note: You can name your device in the network settings of your device under IP Service.

Server_2

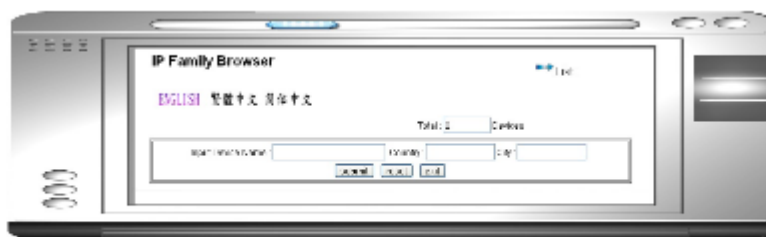
Total : 1 Pages 2 Devices (Server_2/Server_1:0) Present : 1 Pages

Device	Name	Country	City	Mac_Address	IP_Address:Port
9070-v1.2.1.7beta11	office29077	Country	City	009077000014	192.168.50.1:29077
9070-v1.2.1.7beta11	office19077	Country	City	00907700000a	192.168.50.1:19077

Input Device Name :

- 4.) Then you can click on the IP Address of the device to connect to it. Keep in mind that the device needs to be port forwarded to be able to access it.

Searching with IP Service (Google Cloud):



o [IP Service \(Cloud\)](#)

To use IP Service (Cloud):

1.) Click on the image and you will be taken to the IP Service webpage.

2.) Type in the name that you have selected for your device and hit the submit button.

Note: You can name your device in the network settings of your device under IP Service.

3.) Simply put your mouse over the picture of your device and if you have selected your location it will show on the map in the left. Then click on the Icon to connect to your device. Keep in mind that the device needs to be port forwarded to be able to access it.

5.) Accessing the device on the Internet (Port Forwarding)

The internet connection can be setup in two main ways so that the 9077SPD-I/O can be accessed through the internet

Router / Firewall Setup

Using a Router/Firewall to connect each device to the internet

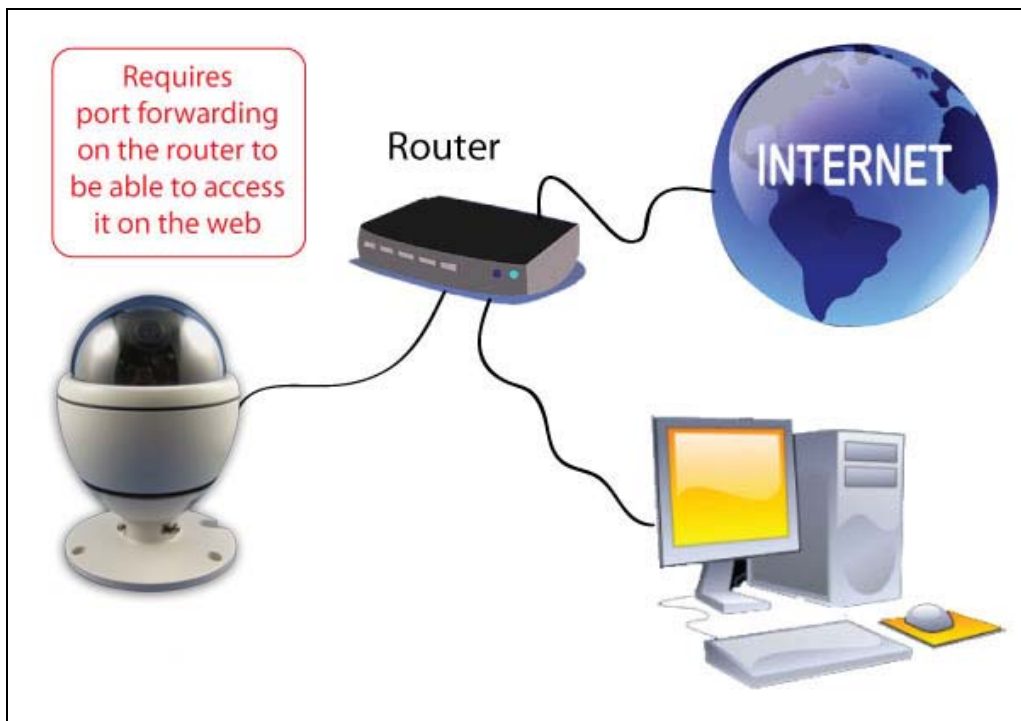
Note: The device needs to be port forwarded on the router so that it can be accessed by the internet.

For example

9077SPD-I/O IP Address: 192.168.1.882

9077SPD-I/O Port: 9077SPD-I/O

On the router that is being used port forwarded (port triggered) IP Address 192.168.1.882 and port 9077SPD-I/O. For this section you may be required to refer the user manual for the router due to the fact that each router has a different way of setting up the device.



Note: Please refer to page: 56 on how to use CNT (Cross Network Technology). With CNT no port forwarding is required to view the camera. But for normal functionality please use the web browser to view the camera.

Static IP Setup

Static IP Address provided by the ISP.



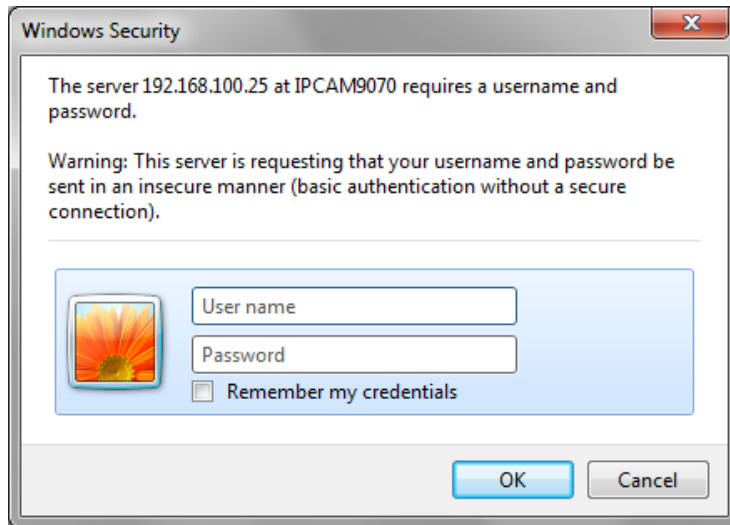
In this case, the 9077SPD-I/O is being connected to the internet through a hub, which is different from a router. The hub does not provide DHCP, and therefore would require that this setup have a static IP Address that is provided by the ISP.

Contact the ISP to find out the static IP address so that your device can be accessed through the internet. Once a Static IP has been assigned the device will be able to automatically go onto the internet.

6.) Web Interface

Connecting to the 9077SPD-I/O

Once the 9077SPD-I/O has been setup correctly, connect to the login page. An Internet Explorer browser screen pop up with the login screen.



Default IP: 192.168.1.168 (When 9077SPD-I/O is connected to PC directly)

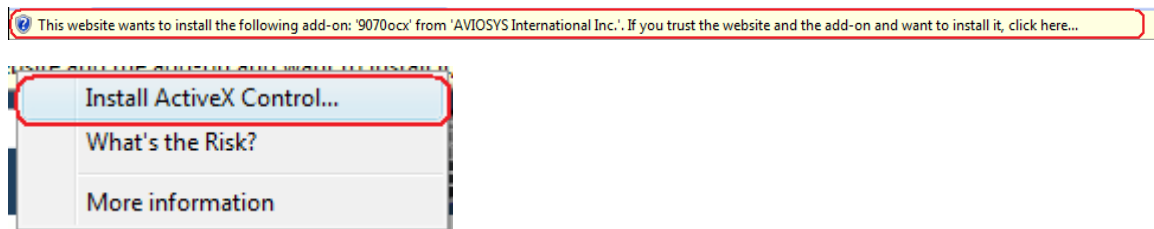
Default Login: admin

Default Password: 12345678

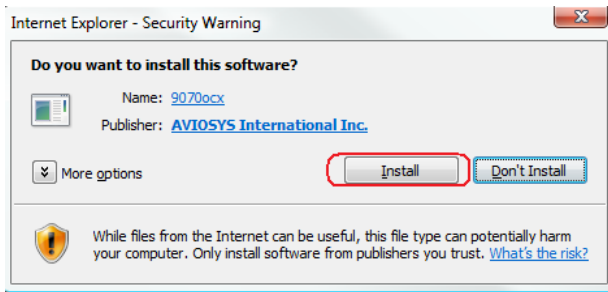
- 1.) Once you have logged into the device you will be required to install active x controls.

**Please install the ActiveX component
to enjoy the A/V stream.**

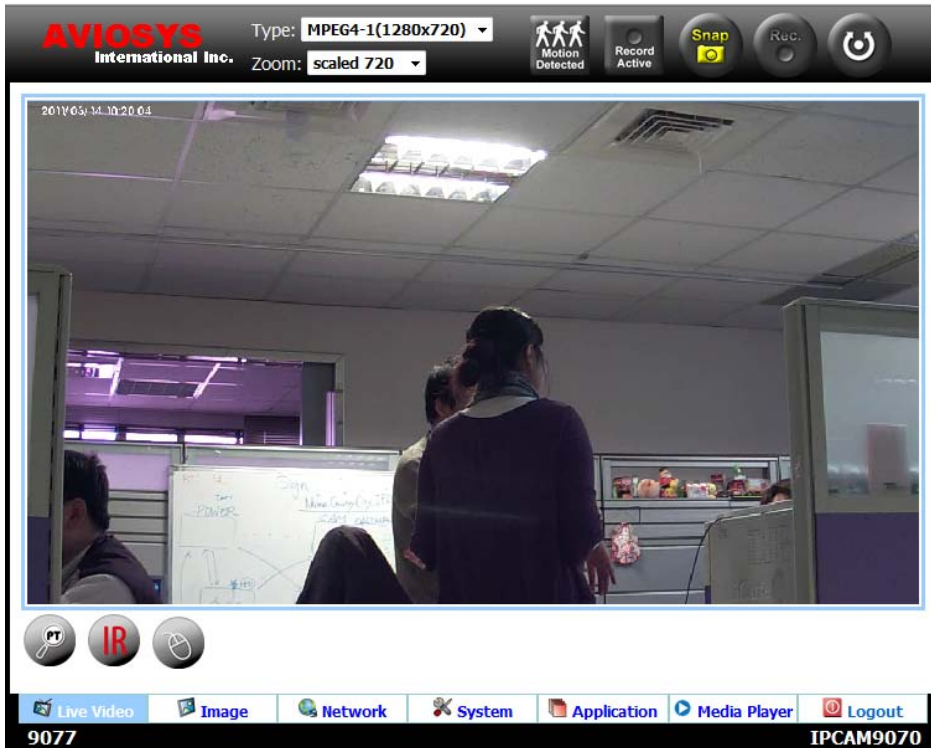
- 2.) Right click on yellow bar and install the activeX controls.



- 3.) Then click the install button and install the active X controls.

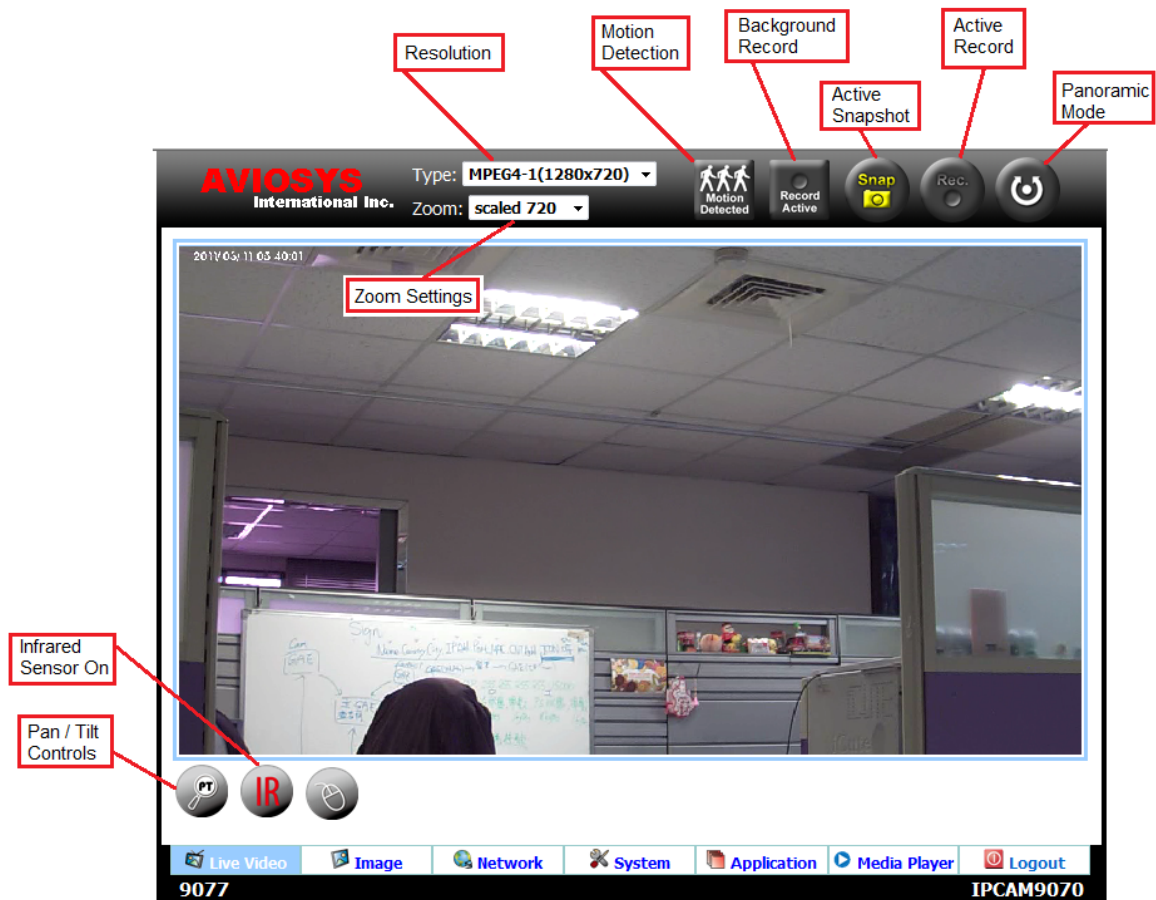


4.) Once active X controls have been installed the video feed will show on the screen



Note: If no active x controls are showing up, please go to internet explorer and enable activeX controls.

The Control Console



The IP Kamera 9077SPD-I/O Control Console starts in the [Live Video](#) Section of the webpage. In this section navigate to the other options and settings of the 9077SPD-I/O

Live Video

Live Video: The Live Video section allows the user to view the camera, change resolution views,

Image

Image: The Image section allows the user to adjust the image settings, including recording / viewing codec, frame rate, image tuning, brightness, contrast, saturation, and etc.

Network

Network: The network section allows the user to change the devices network settings, ftp settings, smtp (email) settings, snmp settings, and IP service settings.

System

System: The system section allows the user to change the devices date and time, set time stamp for video, users, audio settings, update, and event log.

Application

Application: The application section allows the user to change the video recording format, ftp storage settings, SD Card settings,



Media Player: The Media player can directly access the files in the built in memory. Each video file & picture can be accessed here and streamed through the internet.



Logout: For security concern. User need to type username and password after log out . It can protect form other user to view by same browser of PC.

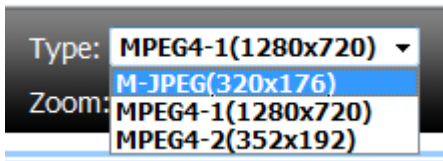
Live Video

The Live video section of the IP Kamera 9077SPD-I/O is where you will live view the video of the device. From here you can change resolution, record onto current pc, take a snapshot, zoom, and detect motion detection.

Type and Zoom

Type:

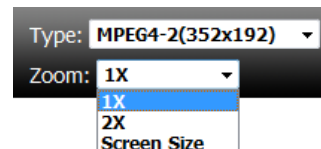
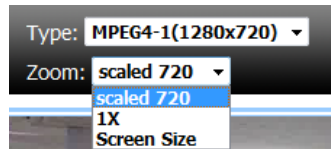
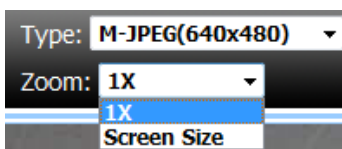
The type function allows you to set the streaming format for the IP Kamera 9077SPD-I/O. You can select from the following type of resolutions depending on the format type you have set in the image settings.



M-JPEG (640x 352)
MPEG4-1 (1280x720)
MPEG4-2 (352x192)

Zoom:

The zoom function allows you to select the screen size of the stream. Depending on the type that you have selected there will be different zooms that will be available.



1X zoom: The 1X zoom is the normal view for each type.

2X zoom: This 2X zoom is 2 times the normal view for that type.

Scaled 720: Is a resolution only available in MPEG-4-1, which sets the picture at 720P.

Screen Size: Will enlarge the image to the whole size of the screen. This function is very useful when trying to display on larger monitors.

Motion Detection

Motion Detection: The motion detection icon will display when motion has been detected. This setting must be activated in the application section

Motion Inactive - When motion detection is inactive



Motion Activated - When motion detection is activated, the icon will turn blue



Active Record

Active Record: Active record will show up when the device is actively recording. Active recording functions like motion detection, scheduler, or an alarm will set off this automatic recording.

Active Record Inactive - When active recording is not activated it will look like the picture below



Active Record Activated - When the active recording function is activated it will light up in red.



Snapshot

Snapshot: The snapshot function, creates a easy way take pictures of the current view in the IP Kamera 9077SPD-I/OIR.



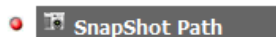
To setup the snapshot destination folder:

- 1.) Click on the Application link on the bottom menu



- 2.) Then select Snapshot path

Setting



- 3.) In here browse for the location where snapshot pictures will be stored. By default the snapshot path will be in C:\9077SPD-I/O\

Snapshot Path

Snapshot File Location:

C:\9070\

Get Folder Path

Recording File Location:

C:\9070\

Get Folder Path

PCSplit File Size (MB) :

100 MB ▾

Submit

(Apply change)

To use the snapshot function:

- 1.) Click on the snapshot button, and you will see the screen flicker black.




- 2.) In explorer go to the selected path and the files will be created there.

Record

Record: The record button on the 9077SPD-I/O when pressed will record the live video feed and save the video into the computer viewing.

To record follow the following steps:

- 1.) Select the recording path that you would like to store the file under in the  **Application** under snapshot path.

Snapshot Path

Snapshot File Location:

C:\9070\

Get Folder Path

Recording File Location:

C:\9070\

Get Folder Path

PCSplit File Size (MB) :

100 MB ▾

Submit

(Apply change)

- 2.) Click on the record button to start recording



3.) Once the folder has been selected the device will start to record.

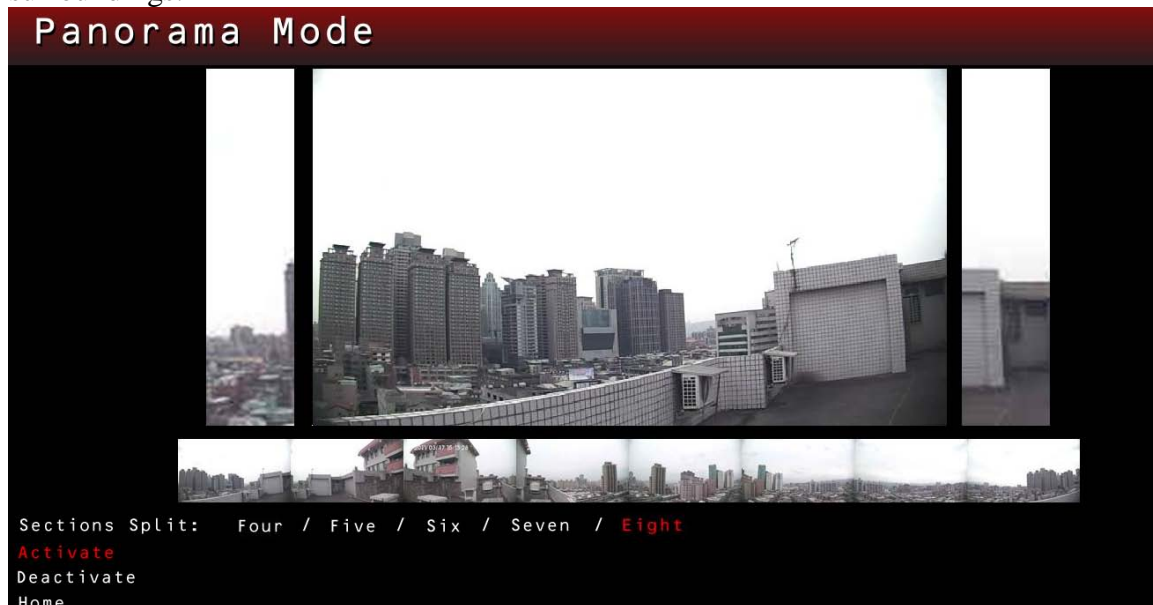


To stop recording click on the red icon and it will return to the original state.

Note: Remember you need VLC codec to play the video files that are recorded

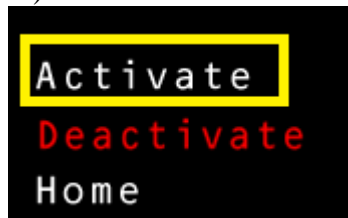
Panoramic Mode

The panoramic mode allows the user to take 360 degree pictures of the 9077SPD current surroundings.



To use panoramic mode follow the following steps:

1.) First click on the activate button.



2.) Select the number of picture slides you would like for panoramic mode. Pick from Four, Five, Six, Seven, Eight.



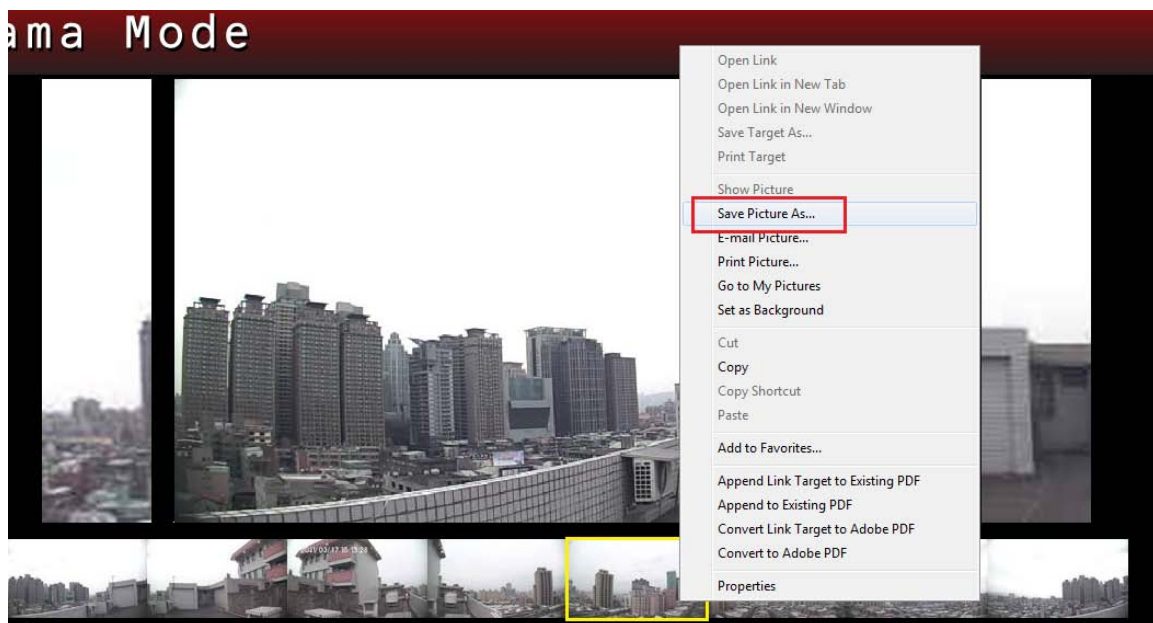
3.) Once each picture has been taken you will see the pictures on the bottom show up with each



4.) If you click on one of the slides on the 360 panel view, the live view screen will move to that position on the device.




5.) To save the pictures on the slide panel simply right click on the image that you would like to save and selected the save as button.

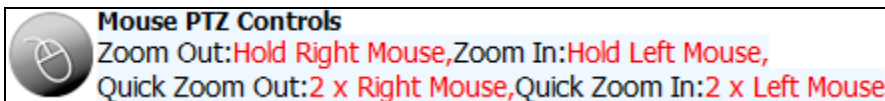


Mouse EPTZ

Mouse EPTZ

On the live video screen move the mouse cursor to the video and click left or right click to use the Mouse EPTZ functionality. Here you can easily **Zoom in**, **Zoom Out**, **Quick Zoom**, **Quick Zoom Out**.

The instructions will be displayed on the screen when the mouse is moved over the  icon.



To Zoom In: To Zoom into the picture move the mouse cursor over the picture and click and hold the left mouse.

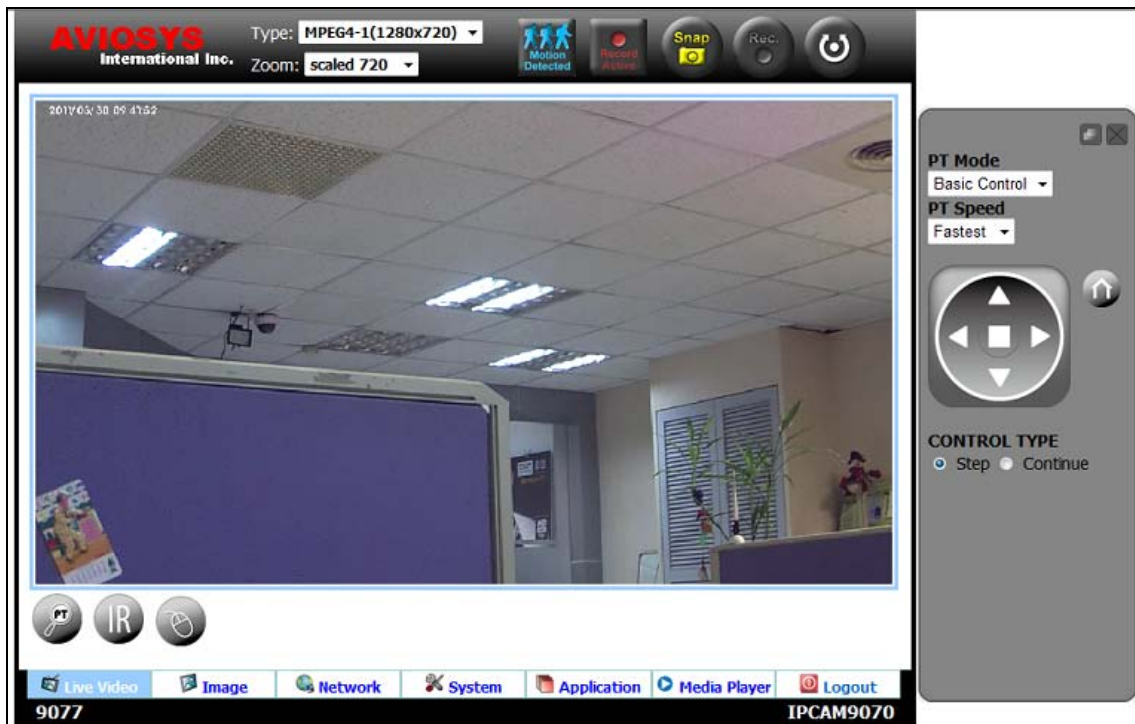
To Zoom Out: To Zoom out of the picture move the mouse cursor over the picture and click and hold the right mouse.

Quick Zoom In: Quick zoom in is used to quickly zoom into the maximum zoom of the picture. To use this function on the picture double click the left mouse.

Quick Zoom Out: Quick zoom out is used to quickly zoom into the maximum zoom of the picture. To use this function on the picture double click the right mouse.

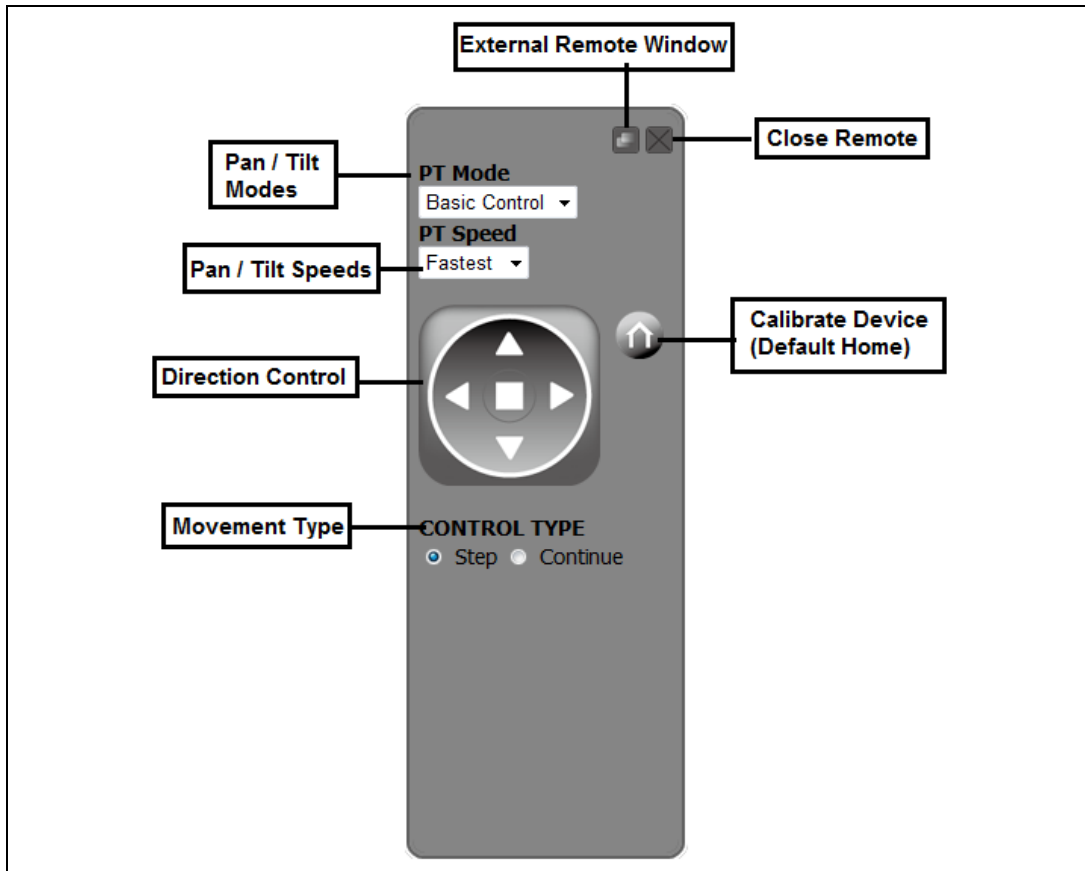
PT Controls

The PT icon will activate the Pan Tilt function on the 9077SPD. This will activate the remote control so that your device can be controlled from here there are many functionality which can be used to meet your needs.



Control Interface

The control interface is the controller for the PT of the 9077SPD. Below we have listed out the different functionality in more details.



Basic Control

External Remote Window - The external remote window button will create a remote in another browser window so you can view your device while using the pan tilt.

Close Remote - This button will close the remote

Pan / Tilt Modes - The Pan / Tilt modes is where you will find different pan / tilt functionality.

Pan / Tilt Speeds: There are five speeds for the pan / tilt control: Slowest, Slow, Normal, Fast, Fastest. Here you can chose the desired speed.

Direction Control - The Direction Control will control the direction of the Pan / Tilt.

Movement Type - Movement type will change how the pan / tilt of the device will work.

Step Control: Will move one step towards the direction you selected.

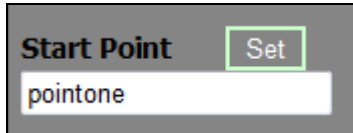
Continue Control: Will continuously move in the direction that you have selected.

Calibrate Device (Default Home): The calibrate button will move the device to the default home point that was set by the manufacture. On the 9077SPD that would be the greed dot sticker that was placed on the device.

X-Axis Patrol

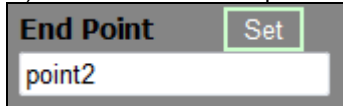
The X-axis patrol will patrol two points on the horizontal X-axis.
To use this functionality try the following:

1.) First set the first point that you would like to patrol from. You can select the name the point by typing in a name.



Note: Do not enter any spaces or characters for the point name.

2.) Then set the second point.



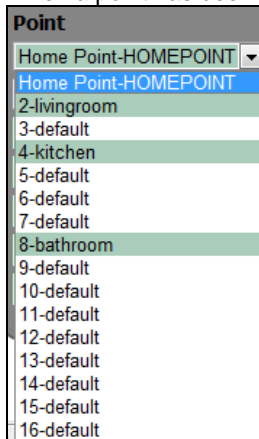
3.) Once the points have been set hit the scan button to start patrolling.



Multipoint PT

The Multipoint PT will allow the 9077SPD device to follow up to 16 points to view on. On each point you can rename the point for convenience purposes.

When a point has been saved it will be shown in green highlight like the picture below.

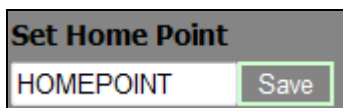


PT Homing

PT homing is a functionality that will allow your device to return to the hompoint that was set in this section within the allotted time.

To use this function do the following:

1.) Set a hompoint and save the point



2.) If you would like to use the return to hompoint function set it to on.

Return to Home Point

☐ OFF
 ☒ ON

3.) Then select the amount of time you would like the device to return to home point. Then hit the set button.

Go to Home Point in

1 Min

Set

Go to Point: To go to point simply select the point that you would like to go to and push the goto point button.

Goto Point

Tour: The tour button will move the device from the first point selected to the last point and continue to tour until the stop button has been pressed.

Tour

Select Tour: The select tour button will allow you to select and customize the path that you would like the 9077SPD to go on. Unlike the tour button this option will allow you to tour in any way you would like. The good thing about this feature is that you can select a tour to stay at a point for the designated amount of time. Also when using select tour, the motion detection on the device will not be activated while moving, instead when movement is detected at the certain points then it will be activated.

Select Tour

To use the Selective Touring feature:

Note: Make sure that you have home point named so that you can use this feature

1.) Click on the select tour button.

Select Tour

2.) Then select the activate now button.

3.) Then select the order in which you would like the points to go to.

Customized Multipoint PT

1. Home Point-home	9. ----
2. 4-kitchen	10. ----
3. 2-livingroom	11. ----
4. 6-bedroom3	12. ----
5. 8-bathroom	13. ----
6. 3-bedroom1	14. ----
7. 6-bedroom3	15. ----
8. ----	16. ----

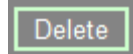
Stay at Each Custom Point for: 30 Sec

Activate now ☒

Save Clear

4.) Select the save button to start the tour.

Delete: The delete button will delete the current point that is selected.



Delete All: The delete all button will delete all the points that have been set.

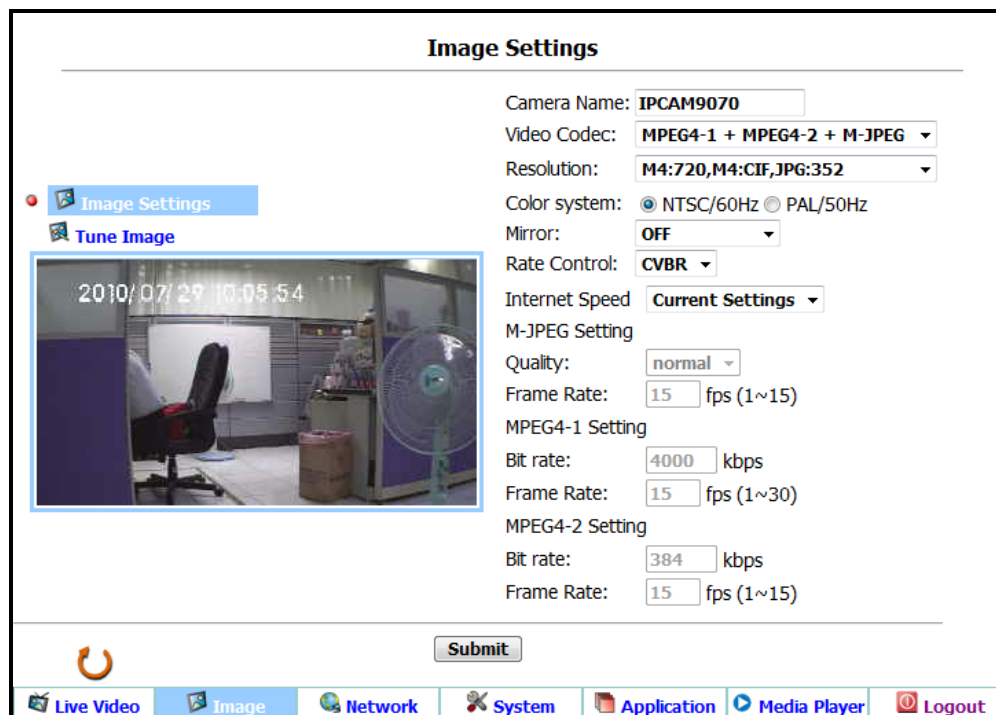


Image

The image section allows you to change the Image settings for the device and tune the image of the IP Kamera 9077SPD-I/O

Image Settings

The Image settings section allows you to change the video settings and the Name of the Kamera.

The image shows a web-based configuration interface titled "Image Settings". On the left, there is a video preview window showing a room with a desk, a chair, and a fan. Above the preview, there are two tabs: "Image Settings" (selected) and "Tune Image". To the right of the preview, various settings are listed: "Camera Name" (text input with "IPCAM9070"), "Video Codec" (dropdown menu with "MPEG4-1 + MPEG4-2 + M-JPEG"), "Resolution" (dropdown menu with "M4:720,M4:CIF,JPG:352"), "Color system" (radio buttons for "NTSC/60Hz" and "PAL/50Hz", with "NTSC/60Hz" selected), "Mirror" (dropdown menu with "OFF"), "Rate Control" (dropdown menu with "CVBR"), "Internet Speed" (dropdown menu with "Current Settings"), "M-JPEG Setting" (Quality: dropdown menu with "normal", Frame Rate: input field with "15" and "fps (1~15)"), "MPEG4-1 Setting" (Bit rate: input field with "4000" and "kbps", Frame Rate: input field with "15" and "fps (1~30)"), and "MPEG4-2 Setting" (Bit rate: input field with "384" and "kbps", Frame Rate: input field with "15" and "fps (1~15)"). At the bottom right of the settings area is a "Submit" button. At the bottom of the interface is a navigation bar with icons and labels for "Live Video", "Image" (selected), "Network", "System", "Application", "Media Player", and "Logout".

Camera Name:

Select a camera name for the device and then hit submit

Camera Name:

Video Codec:

Video Codec:
MPEG4+MPEG4+JPEG
MPEG4+JPEG
MPEG4+MPEG4
Single MPEG4

Resolution:

Resolution	
(MPEG4+MPEG4+JPEG):	M4:720P,M4:CIF,JPG:352
(MPEG4+JPEG):	M4:VGA,JPEG:VGA M4:720P, JPG:720
(MPEG4+JPEG):	M4:720,JPEG:352
(MPEG4-1+MPEG4-2) Not supported in Firefox:	M4:720,M4:CIF
(Single MPEG4):	M4:720

Color System:

Select the broadcasting color system that pertains to your country.

NTSC/60Hz








PAL/50Hz

Each country has their TV broadcasting standard, please check with your local service provider to find out if you use a NTSC system or PAL system.

Mirror:

The mirror function allows you to flip the image of the device around. Depending the direction and the way the camera is mount you can use this setting to change the angle of the picture. Please see below for more details.

Normal View:

Normal View	Horizontal View	Vertical	Both
			
			

Rate Control:

Select the Bit Rate Control that fits your needs.

CVBR: Constrained Variable Bit Rate

CBR: Constant Bit Rate

Internet Speed:

The Internet Speeds settings allows you to choose some preset settings to best fit your current internet speeds. From here you can select from the following options:

Cable / ADSL: Most high speed internet users today use Cable / ADSL as the main internet provider line.

Fiber Optics: High speed fiber optics provides the best solution for outside the network because it is very fast.

Intranet (LAN): When using the IP Kamera from within the network this is the best option.

Custom: This setting allows you to manually input a setting for the Bit Rate, FPS, and picture quality.

M-JPEG Settings: The available Quality settings and FPS for the M-JPEG settings are shown below

M-JPEG Quality Settings
High
Medium
Low

M-JPEG Frame Rate Settings
30 FPS
15 FPS
7.5 FPS
3 FPS
1 FPS

MPEG4-1

Bit Rate: Select a value from 64~8000.

FPS: Select a FPS from 30fps, 15fps, or 7.5fps

MPEG4-2

Bit Rate: Select a value from 64~8000.

FPS: Select a FPS from 15fps or 7.5fps

Note: PTZ is only available in the mode below. When you enable PTZ it will automatically jump into that mode.

Video Codec: MPEG4+JPEG
Resolution: M4:VGA,JPG:VGA


Tune Image

The tune image settings section allows you to control and tune the picture quality of the image. Keep in mind, the quality of the picture will also be affected by the quality of the lens that is being used.

Image Fine Tune

Image Settings

Tune Image



White Balance: auto

Day and Night: day

TV Output: ☐ Enable ☒ Disable

Binning /Skipping mode: binning

BLC: ☒ ON ☐ OFF

Backlight
50.2%

Brightness
50.2%

Contrast
50.2%

Saturation
50.2%

Sharpness
50.2%

Default
Submit

White Balance: Select from the following options **auto**, **indoor**, or **outdoor**

Day and Night: Select the mode Day or Night

TV Output: Select the mode **enable** or **disable** to output to a T.V

Binning / Skipping mode: Binning enables low light-light performance. Select Binning, Skipping, 4x Binning mode (default is Binning)

BLC (Backlight control): Select from one of the options on or off to control the

Backlight: Select a value between (0~100%)

Brightness: Select a value between (0~100%)

Contrast: Select a value between (0~100%)

Saturation: Select a value between (0~100%)

Sharpness: Select a value between (0~100%)

(Default Values)

Default: To Return all values to normal default click on this button.

Note: Make sure you click on the Apply button to save any changes made

Network

Network

LAN Network

FTP

E-mail SMTP

SNTP

IP Service

DDNS

RTSP

☒ Enable DHCP

IP Address: 111 . 240 . 63 . 82

Local IP Address: 192 . 168 . 100 . 20

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 100 . 1

DNS Server: 168 . 95 . 192 . 1

HTTP Port: 80 (80 or 1025~65535)

MAC: 00907700000e

The network section allows you to setup the network information for the IP Kamera 9077SPD-I/O.

Enable DHCP: This function will enable the DHCP for the device. If this is enabled the IP Address of the device will be automatically provided by the router of the device.

IP Address: Actual IP Address of the device can be found here

LAN IP Address: Local Area Network Address.

Subnet Mask: Subnet Mask information

Default Gateway: Default Gateway Address

DNS Server: Domain Name System Address

Http Port: Enter the port that you would like

MAC: The Mac Address or physical address of the device

Note: Make sure you click on the Apply button to save any changes made

FTP

FTP Server Setting

FTP is a network protocol used to transfer data
please setup the correct server setting.

FTP Server: 192.168.1.1 Port: 21

User Name: sample

Password:

File Upload Path: default_folder

Submit

The FTP section of the IP Kamera 9077SPD-I/O allows you to save video clips

FTP Server: The FTP server address is where the IP Address of the FTP server will be entered.

User Name: Enter the FTP Username

Password: Enter the FTP Password

File Upload Path: Enter the upload path of the FTP Server

File Upload Path: Enter the upload path of the FTP Server

SMTP (Outgoing E-mail Server)

SMTP Server Setting

To use to E-mail function
please enter Outgoing Mail Server (SMTP) of your E-mail Address.

☒ My Server Requires Authentication

Account Name: aviosys

Password:

☒ This server requires an encrypted connection (SSL)

SMTP Server: 192.168.1.1

port: 587

Receiver Email: sales@aviosys.com

Sender Email: reciever@aviosys.com

Subject: IPKamera9070

Message Body: alarm mail.

Message Body characters cannot be more than 255

Submit Send Test e-mail

Enter the SMTP E-mail server information here. The SMTP section allows the 9077SPD-I/OCSWO to send emails out using the SMTP settings.

My Server Requires Authentication: Some servers require SMTP Authentication for security purposes. If your email server requires this option, make sure to have this section checked.

Account Name: Enter then login of the mail account

Password: Enter the password of the E-mail account

Use SSL Connect: If the email server requires SSL (Secure Sockets Layer) this option need

Sender Email: Enter the Sender Email Address

SMTP Server: Enter the SMTP Outgoing mail address

Email Address: Enter the Receiving Email address

Submit: After all settings have been made. Hit the submit button to save all changes.

Send Test E-Mail: This button will send a test e-mail to the designated account. This way, you can check to make sure that the settings are correct.

Note: If you are having problems sending emails out and the settings are correct. Please check your DNS Server address to make sure you can send email out.

SNTP

The SNTP is a protocol for synchronizing the clocks of computer systems.

Network

FTP

E-mail SMTP

SNTP

IP Service

SNTP Server Setting

SNTP is a protocol for synchronizing the clocks of computer systems over packet-switched, variable-latency data networks
please setup the correct SNTP server information.

SNTP Server:

SNTP Server List:

Time Zone:

☐ Automatically Adjust for Daylight Saving Time Changes.

SNTP Server: Enter the SNTP server address. Below are a list of free public NTP servers.

Europe — europe.pool.ntp.org

Asia — asia.pool.ntp.org

Oceania — oceania.pool.ntp.org

North America — north-america.pool.ntp.org

South America — south-america.pool.ntp.org

Africa — africa.pool.ntp.org

Time Zone: Enter the corresponding time zone

Automatically adjust for daylight saving time: Check this section if you want daylight saving time to be implemented automatically.

IP Service

LAN Network

FTP

E-mail SMTP

SNTP

IP Service

DDNS

RTSP

IP Service Server Information below

☒ Enable IP Service

IP Service Server : Kamera Server

CNT Server : Kamera Server

Camera Title: IPCAM9070

Country: Country

City: City

MAC: 00907700000e

Note: Use the MAC address value when using CNT

Note: When the CNT function fails, you can enable GAE Service

☐ GAE Start

☒ CNT Sharing Of Account And Password

User: guest

Password:

Submit

IP service is a added service that provides you a platform so you do not remember a long IP Address. Just enter the name of your device into IP Service and you can find your device.

Note: Port forwarding will be required on your router to connect to the device

In this section you can to turn off/on this service as well as select which server you would like your device on. .

Note: IP Service is set to ON by default. To close this feature, uncheck the enable button.

IP Service Server:

There are 3 IP Service Servers that can be selected from:

Kamera Server

Power and Video Server

Kamera Server

Cloud_Server

Power and Video Server: This is the server where most IP Power products and IP Video server products can be found.

Kamera Server: This is the IP server where most IP Kamera products from Aviosys will be found on.

CNT Server: Cross Network Technology Sever. CNT allows user to connect to their IP Kamera without having to Port Forward to the device.

Kamera Server

Power and Video Server

Kamera Server

Camera Title: This is the name of the device.

Country: The country where the device is located.

City: The city where the device is located.

MAC: Physical address or MAC of the device.

GAE Start: Will setup the device load information to the google cloud so that your device can be accessed on the cloud. See the section on www.myipedit.com for more information.

CNT Sharing of Account and Password: Cross Network Technology allows for your device to be reached without having to port forward. Here you can setup a guest CNT account which can be used in surf pop to access your device. To turn off this feature simply just uncheck the CNT box.

Once you have setup IP Service you can connect to IP Service through software IP Edit Search tool or through www.myIP Edit .com

Enable Share:

Check this feature to enable video sharing on guest accounts only. Make sure that the guest account has already been created in the user section. Once this section has been made you can come here to verify that
Note: This function is for IP Surf Pop software.

Please refer to the IP Surf Pop manual for more information at www.Aviosys.com

Please refer to the IP Surf Pop manual for more information at www.Aviosys.com

DDNS

DDNS Setting

Network ☒ Enable DYNDNS

FTP DDNS Host Name:

E-mail SMTP DDNS Account:

SNTP DDNS Password:

IP Service DDNS Status:

DDNS

RTSP

The DYNDNS feature allows you to use dyndns with the 9077SPD. All you need to do is sign up with a free account with www.dyndns.com and enter the appropriate information.

The update button will allow you to update the information.

DDNS Host Name: The name of the DNS address will be entered here.

DDNS Account: The login name you use for DYNDNS

DDNS Password: Password for the account.

Once the information has been entered hit the submit button to start using dyndns.

RTSP

Real Time Streaming Protocol (RTSP) gives the device another way to stream live video. Using programs that support RTSP, you can broadcast the videos from the 9077SPD-I/O live.

Note: To access the device from outside the network. Please make sure of the following:

9077SPD-I/O should be set to DMZ host, or mapping router's TCP ports 554 and 8554 to 9077SPD-I/O, preferably at the same time mapping UDP port 6970-9999

Real Time Streaming Protocol Setting

Network

FTP

E-mail SMTP

SNTP

IP Service

DDNS

RTSP

☐ Enable rtsp user authority

RTSP Port 1:

554

RTSP Port 2:

8554

Submit

?

More Information

System

Date and Time

Date and Time

Time stamp

Users

IR Controls

Device Tune Up

Language Setting

Update

Events

The Local Time

Date:

2010/07/29

Time:

14:56:12

The Desired Time

☐ Set Manually

Date:

2010

/

07

/

29

(YYYY/MM/DD)

Time:

14

:

54

:

38

(HH:MM:SS)

☐ Synchronize with Computer Time

Date:

2010/07/29

Time:

14:53:40

☐ Synchronize with SNTP Server

SNTP Server: tw.pool.ntp.org

Time Zone:
GMT+08 Taipei, Beijing, Chongqing, Urumqi, Hong Kong, Perth, Singapore

Date Format:

YYYY/MM/DD

Submit

The system section allows you to setup the IP 9077SPD-I/O's system configurations. This includes the following

- 44-

Ref#9077033111

Date and Time

Date and Time

Time stamp

Users

Audio

Device Tune Up

Language Setting

Update

Events

The Local Time

Date: 2010/05/26 Time: 20:15:25

The Desired Time

☐ Set Manually

Date: 2010 / 06 / 09 (YYYY/MM/DD)

Time: 16 : 05 : 40 (HH:MM:SS)

☐ Synchronize with Computer Time

Date: 2010/06/09 Time: 16:21:39

☐ Synchronize with SNTP Server

SNTP Server: tw.pool.ntp.org

Time Zone: GMT+08 Taipei, Beijing, Chongqing, Urumqi, Hong Kong, Perth, Singapore

Date Format: YYYY/MM/DD

Submit

Set the date and Time of the device here.

The Local Time: The local time corresponds to the current time of the IP Kamera 9077SPD-I/O.

Time Setup: Setup the current time of the device here

- 1.) **Set Manually:** Set the time manually
- 2.) **Synchronize with Computer Time:** Synchronize the time with the current computers time
- 3.) **Synchronize with SNTP:** Synchronize with SNTP

Time Stamp

Date and Time

Time stamp

Users

Audio

Update

Events

☒ Enable Date and Time stamp

Date Format: YYYY/MM/DD

Submit

The time stamp adds a time to the live video.

When a recording is made a time stamp will show up with in the video file that is being recorded.

To enable the Time Stamp please check the enable box.

User

Users

- [Date and Time](#)
- [Time stamp](#)
- [Users](#)
- [Night Vision](#)
- [Device Tune Up](#)
- [Language Setting](#)
- [Update](#)
- [Events](#)

User List:
 admin:Admin
 guest:Viewer(CNT)

Add/Modify User

User:

Password:

Confirm:

Authority: ☐ Admin ☐ Operator ☐ Viewer

In this section, you can create different user access rights for different types of users.

Authority: Select one of the following options:

Admin: You can operate all functions in Web interface. Also, you can add or delete any user's account.

Operator: You can operate all functions in Web interface except user Add/Delete.

Viewer: You can only monitor the Web interface, but cannot operate all function and set parameters.

Night Vision

Night Vision

- [Date and Time](#)
- [Time stamp](#)
- [Users](#)
- [Night Vision](#)
- [Device Tune Up](#)
- [Language Setting](#)
- [Update](#)
- [Events](#)

Night Vision Controls: ☒ ON ☐ OFF

Schedule

☒ 6 : 0 To 18 : 0 Status

Time	Status
06:00~18:00	OFF
18:01~05:59	ON

The night vision on the 9077SPD allows the device to turn on or turn off the electronic IR sensor. From here you can set specific time periods for when the sensor will be off or when the sensor will be on.

Device Tune Up

The Device tune up section allows the device to restart itself and clear the memory during the desired time. With this function you can set the device tune up to each hour, each day, or each week. Using this function the device will run very smoothly and can be refreshed daily.

Language Setting

Language: English(English)

Submit

Ref#9077033111

Update

Update Firmware

Date and Time

Time stamp

Users

Night Vision

Device Tune Up

Language Setting

Update

Events

Current Version Description

Kernel Version: Linux version 2.6.10_AVIOSYS-1.1.1

UBoot Version: U-Boot 1.2.0 (Apr 21 2008 - 18:41:45) IPNC-U-1.0.2

Firmware Version: IPNC_APP v1.2.1.7

HTML Version: 1.2.23

ActiveX Version: 1,0,2,15

Device Version: 9077

Note: Turn off all automatic recording features in the Application Section under Enable Schedule Record and Enable Alarm sections

A minimum of 12MB memory is required, please restart device. Currently memory available is Free Memory 10.184 MB

Note: Do not update the device via wireless connection. Make sure to connect a Ethernet cable to the device to prevent damages to the device

Note: Do not disconnect the power of the device, during the update. The device needs to be restarted after the update has completed.

Restart

Warning: IPCAM will restart immediately!!

The Update Firmware section is where information on the 9077SPD-I/O is displayed.

The **Kernel Version**, **Uboot Version**, **Firmware Version**, and other technical information on the device is displayed here.

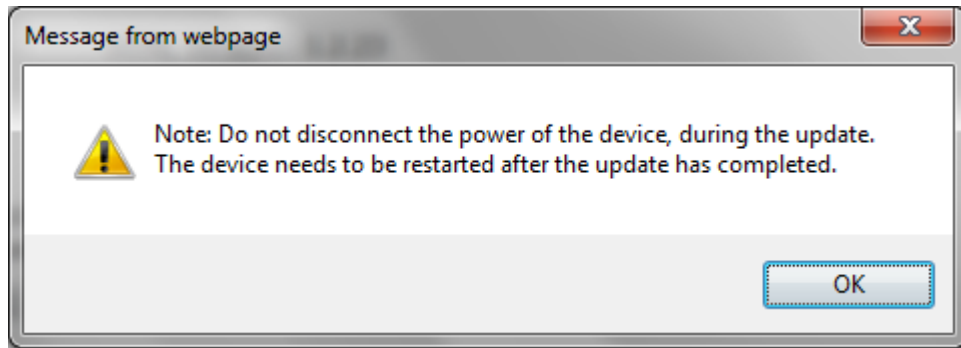
Updating the Device

Note: The 9077SPD will calculate if you have enough memory to update the device. If not you will be required, turn off all automatic recording functionality and restart the device. Then you will have enough memory to restart.

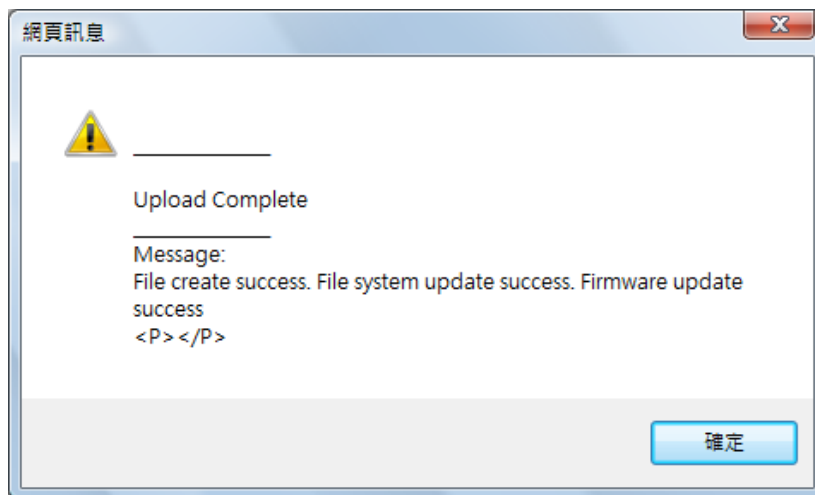
To update the device go to the update section. Here you will find the Current Version description.

To update the device:

- 1.) Browse for the correct update file.
- 2.) Hit the update button.
- 3.) A message will appear, reminding you not to disconnect when updating.



- 4.) Please wait for the loading circle _____ to finish, and wait for an update confirmation page.
- 5.) Once the device is updated you will see a update confirmation and click okay.



Warning: Before you go to the next step make sure you have all your setting information written down. The device will reset back to manufacturers default values after you restart the device. You will need reconfigure the IP Kamera 9077SPD-I/O, including Email, FTP, IP Address, Gateway, and etc.

- 6.) Unplug the device then plug it back in.
- 7.) Then make sure you re-setup the device.

Event Log

Event Log		
Item	Date and Time	Events
1.	2011-03-14 12:22:25	admin login on 192.168.100.8
2.	2011-03-14 11:48:50	admin login on 192.168.100.8
3.	2011-03-14 11:18:20	admin login on 192.168.100.8
4.	2011-03-14 10:43:46	admin login on 192.168.100.8
5.	2011-03-14 10:13:45	admin login on 192.168.100.8
6.	2011-03-14 03:54:00	admin login on 192.168.100.9
7.	2011-03-13 05:59:53	admin login on 192.168.100.33
8.	2011-03-12 12:08:08	admin login on 192.168.100.8
9.	2011-03-12 11:22:00	admin login on 192.168.100.8
10.	2011-03-12 10:51:59	admin login on 192.168.100.8
11.	2011-03-12 10:21:59	admin login on 192.168.100.8
12.	2011-03-12 09:51:59	admin login on 192.168.100.8
13.	2011-03-12 09:13:56	admin login on 192.168.100.8
14.	2011-03-12 08:43:55	admin login on 192.168.100.8
15.	2011-03-12 08:13:54	admin login on 192.168.100.8
16.	2011-03-12 07:43:52	admin login on 192.168.100.8
17.	2011-03-12 07:13:51	admin login on 192.168.100.8
18.	2011-03-12 06:43:50	admin login on 192.168.100.8
19.	2011-03-12 06:13:50	admin login on 192.168.100.8
20.	2011-03-12 05:43:49	admin login on 192.168.100.8

[First Page](#) [Previous 20](#) [Next 20](#)

In the Events Log section you can find the log for the IP Camera. This section will notify you any events that have taken place with the IP Kamera.

Application

Snapshot Path

Setting

- Snapshot Path
- File Setting
- FTP
- SD Card
- Net Drive
- E-mail SMTP
- EZ Blog
- Media Player
- My Web
- RSS
- Guestbook

Schedule Record

- Schedule
- Enable Schedule
- Record

Alarm

- Motion Detection
- Enable Alarm

Snapshot File Location: [Get Folder Path](#)

Recording File Location: [Get Folder Path](#)

PCSplit File Size (MB) : [Submit](#) (Apply change)

The Application Section setups the Video File information, FTP, SD Card, SMTP

Setting

Snapshot Path

Snapshot Path		
Snapshot File Location:	<input type="text" value="C:\9070\"/>	<input type="button" value="Get Folder Path"/>
Recording File Location:	<input type="text" value="C:\9070\"/>	<input type="button" value="Get Folder Path"/>
<hr/>		
PCSplit File Size (MB) :	<input type="text" value="10 MB"/>	
<input type="button" value="Submit"/> (Apply change)		

The snapshot path section allows you to configure where you would like your live snapshot and recording files are stored on your local computer. Simply, click on the button and choose a folder to where you want to save the files.

PC Split File Size: Allows you to select the segment size of the files that will be recorded onto your computer.

File Settings

File Setting	
Setting	File Configuration
<input checked="" type="radio"/> SnapShot Path	
<input checked="" type="radio"/> File Setting	<input checked="" type="checkbox"/> Add Date Stamp
<input type="radio"/> FTP	File Name <input type="text" value="IPCAM"/> <input type="button" value="Confirm"/>
<input type="radio"/> SD Card	
<input type="radio"/> Net Drive	
<input type="radio"/> E-mail SMTP	
<input type="radio"/> EZ Blog	
<input type="radio"/> Media Player	
<input type="radio"/> My Web	
<input type="radio"/> RSS	
<input type="radio"/> Guestbook	
Schedule Record	File Format Settings
<input type="radio"/> Schedule	AVI Format
<input type="radio"/> Enable Schedule Record	Note: To send Avi Format through E-mail or FTP, requires the SD card to be unmounted
Alarm	AVI Format: <input type="text" value="MPEG4(720)"/>
<input type="radio"/> Motion Detection	AVI Duration: <input type="text" value="--"/> Second(s)
<input type="radio"/> Enable Alarm	JPEG Format
	Attached File Numbers: <input type="text" value="5"/> (1 ~ 20)
	<input type="button" value="Submit"/>

The file settings page allows you to configure certain settings for files that are sent to E-mail, FTP, or SD card.

File Configuration: Under this section you can select a prefix name for your recorded files. Here you can also add a date stamp to your files by checking the box that says **Add Date Stamp**

File Format Settings: In this section you can select the file that type that you would like to record in. Depending on the resolution and video codec selected you can choose from various format types.

Select the Video File format that the device will record in.

1.) **Avi Format:**MPEG4 (720) & MPEG4 (CIF)

2.) **Avi Duration:** From the drop-down list, select the length of an AVI file, then press submit

3.) **Jpeg Format:** The attached number of files is where you can select the number of pictures you would like the device to take. **FTP**

FTP Application Setting

Setting **FTP Networking**

Snapshot Path	FTP Server:	192.168.1.1
File Setting	Port:	21
FTP	User:	
SD Card	File Upload Path:	default_folder
Net Drive		
E-mail SMTP		
EZ Blog		
Media Player		
My Web		
RSS		
Guestbook		
Schedule Record		
Schedule		
Enable Schedule Record		

FTP File Setting

Upload Format: JPEG ▾

Note: To access the MPEG4 format, the SD memory must be unmounted and Share Path be unmounted.

Submit (Apply change)

SD Card Net Drive

The FTP application settings page, is where information on the device's FTP can be found. If not FTP information was entered the section would be blank. By simply clicking on the **FTP Networking** it will take you to the page where the FTP information can be entered.

Note: Also make note that if the SD card is mounted to the device, the 9077SPD will only be able to record in M-Jpeg mode. The SD card can be unmounted in the SD card section by clicking on **SD Card**

SD Card

☒ **Enable Auto Overwrite**
(When SD card is full, Auto Overwrite will replace oldest file.)

File setting

Split Filename Type: Named By Time ▾

Split File Size (MB) : 100 MB ▾

File Format: MPEG4 ▾

Submit (Apply change)

Card Status

Capacity: 7.38 GB

Usage: 0 %

SD Format (Warning: All data on memory will be removed.)


Unmount (Safely Remove SD memory)

Restart (Restart Device to Remount SD Card)

The SD card section is where settings to setup the SD card recording is located. In this section you can configure

Enable Auto Overwrite: Auto Overwrite allows the device to automatically replace the oldest file on the SD card when it is full.

Split Filename Type: Allows you to sort the file into two different methods.

Name by Time: If add date stamp in the  section is selected the 9077SPD will sort the device by time.

Name by Index: If add date stamp is not selected, the 9077SPD will sort by Index.

File Format: Here is where the file format for the recordings can e selected.

MPEG4(720) ▾

MPEG4(720)

MPEG4(CIF)

Split File Size: Select the size of each file that will be saved into the SD.

You can select from:

10mb, 25mb, 50mb, 100mb, 200mb, 512mb, 1024mb

Named By Time ▾

100 MB ▾

10 MB

25 MB

50 MB

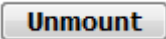
100 MB

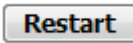
200 MB

512 MB

1024 MB

SD Format: SD format will format the entire SD card 

Unmount: The  feature will unmount the SD card from the device, so it cannot be accessed unless remounted.

Reset: To mount the SD card back onto the device, you can use the button 

Net Drive

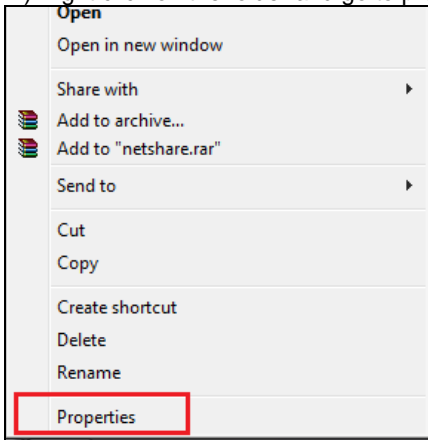
The net drive function allows you to save your recordings to a local network computer. This provides a extra storage place for pictures and videos from motion detection and schedule recording.

Setting up Computer (Windows 7)

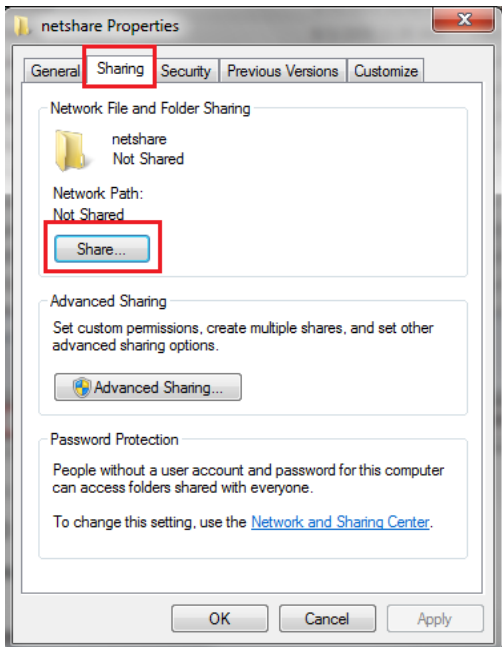
To use the Net Drive functionality you will need to setup your computer to allow network sharing.

To do that follow the following steps:

- 1.) Select the drive that you would like to use to store your files.
- 2.) Right click on the folder and go to properties.

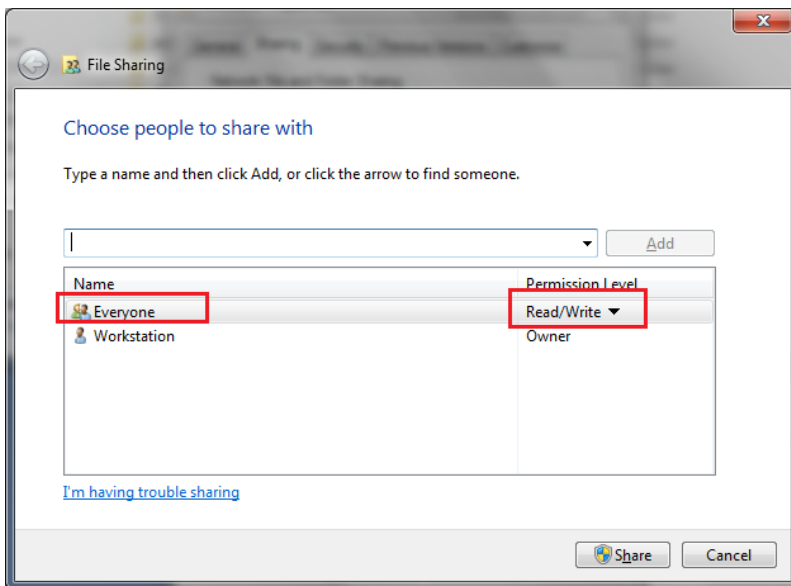


- 3.) Select the sharing tab and click on the share button.

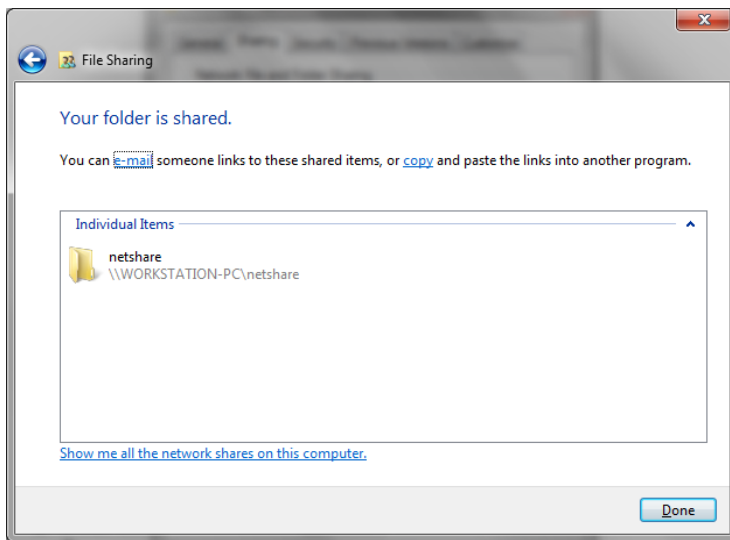


4.) Here you can select a user in your windows OS that you would like to share with or Everyone which will share this drive with everyone on your network. Select everyone and hit the add button.

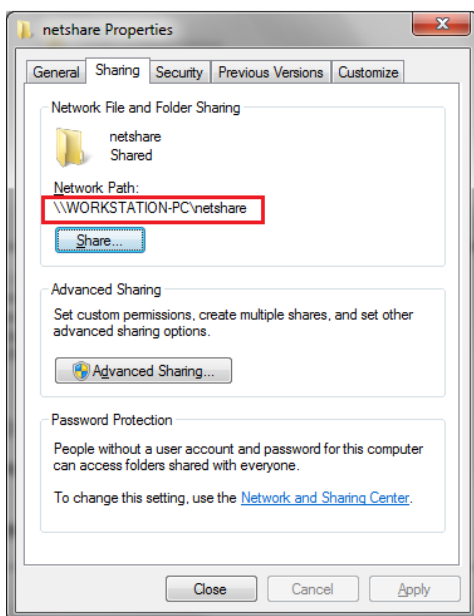
Note: The user selected must have Read / Write capabilities for this function to work correctly.



5.) Then hit the share button on the bottom and you should receive a confirmation to show that the folder has been shared.



6.) Click the done button and it will take you back to the folders properties. Under the sharing tab you will find a section that says network path.
Copy that information and put it into the 9077SPD webpage in the net drive section.



Setting up Net Drive

After the computer has been setup. Now you will need to setup the net drive in the 9077SPD-I/O

1.) For the login and password since we have selected **everyone** as the sharing user, simply type in any login or password.

In the case where you have selected a specific user to use here you will need to use the login and password of the specified user.

Under the connect mode, you can select from Format 1(SMBFS) or Format2(CIFS) depending on your computers setup. Hit the submit button when finished.

Net Drive

Net Drive Setup

NOTE: The read & write permissions need to be activated for the share directory & user for this function to work properly.

Path: Example: //192.168.1.2/9070

User:

Password:

Connect Mode ☒ Format1(SMBFS) ☐ Format2(CIFS)

2.) Next under Net Drive status click on the Connect button to make sure that the net drive has been setup correctly. When the Net Drive is connected successfully it will say Connect OK

In this section you will find a button to disconnect the Net Drive as well as restart the net drive.

Net Drive Status

(Connect to Net Drive)

(Disconnect from Net Drive)

(Restart Device and Connect Net Drive)

Status:

3.) Now select the split size to select how big you want the files to be. Then hit the submit button and the net drive will start to work.

Net Drive Format




☒ Enable Auto Overwrite

File Format

Split Filename Type:

Split File Size (MB) :







E-mail SMTP

SMTP Application Setting	
 SMTP Networking	
SMTP Server:	192.168.1.1
Receiver Email:	
<hr/>	
File Setting	
Attached File Format :	JPEG ▼
Note: To access the MPEG4 format, the SD memory must be unmounted and Share Path be unmounted.	
<input type="button" value="Submit"/>	(Apply change)
 SD Card	
 Net Drive	

The SMTP application settings is where the file format uploaded by email can be selected. From here you can choose the files to be in either Jpeg (picture) format or Mpeg.

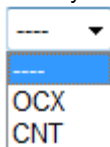
Note: To use the device in Mpeg format make sure to unmount the SD card of the device first.

EZ-Blog

		
User	CNT	9070
CNT :		
Advantages: useless for the setting of the Router		
Disadvantages: updated every 5 seconds		
		
User	Internet	Router
OCX :		
Advantages: Instant		
Disadvantages: need to be set on the Router		

EZ Blog is a an easy way to integrate your IP camera with your blog or website. Simply by using the code produced you can have live video from your IP camera on your blog and websites.

Start by selecting which method you would like to use EZ blog.



There are two ways that you can use EZ blog.

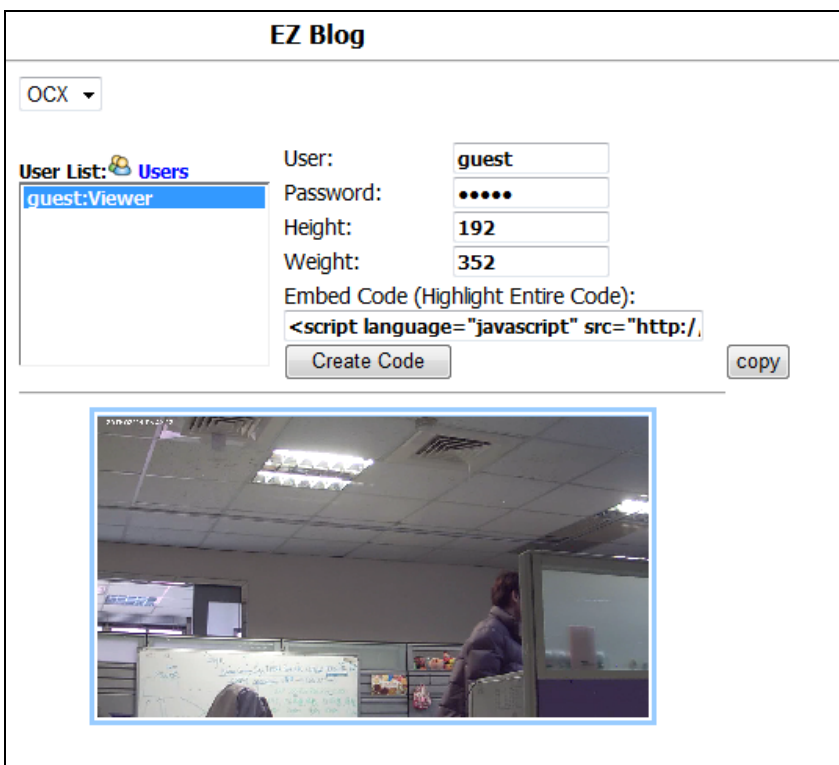
1.) Using OCX to broadcast EZ blog




Advantages of using OCX: Instant Response

Disadvantages: Router needs to be setup in order to use this method.

Note: To use EZ blog through OCX you will need to make sure that your device has been properly port forwarded. Furthermore, the blog platform being used needs to support java script like (i.e. Blogspot)



The screenshot shows the EZ Blog interface. At the top, 'EZ Blog' is displayed. Below it, a dropdown menu shows 'OCX' selected. On the left, there is a 'User List' with a 'Users' icon and a list containing 'quest:Viewer'. To the right of the user list, there are input fields for 'User:' (filled with 'quest'), 'Password:' (filled with dots), 'Height:' (filled with '192'), and 'Weight:' (filled with '352'). Below these fields is a section for 'Embed Code (Highlight Entire Code):' containing a JavaScript code snippet: `<script language="javascript" src="http://...". Below the code is a 'Create Code' button. To the right of the 'Create Code' button is a 'copy' button. At the bottom of the interface is a video player showing a person in a room.`

User List: The user list shows the available users you can use to setup EZ Blog. We highly recommend to use guest accounts and if a guest account is needed you can easily do so by accessing the  **Users** menu.

Once the user is selected, now you can easily create the embed code:

1.) Type in the password for the selected user.

User Name:

Password:

2.) Select the dimensions you would like the image to be

Height:

Weight:

3.) Select the create code button to create the embed code

Embed Code (Highlight Entire Code):

`<script language="javascript" src="http://`

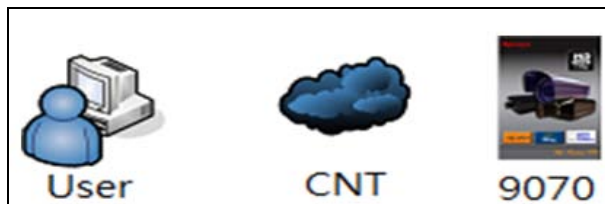
Create Code

copy

4.) Press the copy button to copy the code that you would like to use. You can highlight the embed code from inside the box and then copying (ctrl + C) or you can just hit the copy button to copy the code.

5.) Once the code has been copied, place that code somewhere in the body of your blog or website and a video will be displayed on the screen.

2.) EZ blog through CNT



Advantages of using CNT: Does not require router setup to use. Can cross network, simply plug and play.

Disadvantage: Requires constant communication to make sure device is connected.

Note: To use CNT feature, the GAE server must be turned on. You can do this by going to the

Network

network tab, and click on the

IP Service

IP Service link

Note: When the CNT function fails, you can enable GAE Service

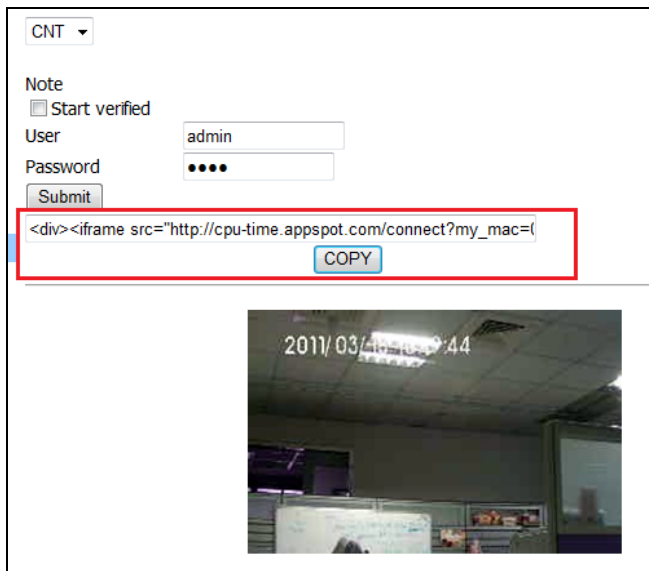
☒ GAE Start

☒ CNT Sharing Of
Account And Password

User:

Password:

To use CNT to integrate your IP camera with your blog:



CNT ▾

Note

☐ Start verified

User

Password

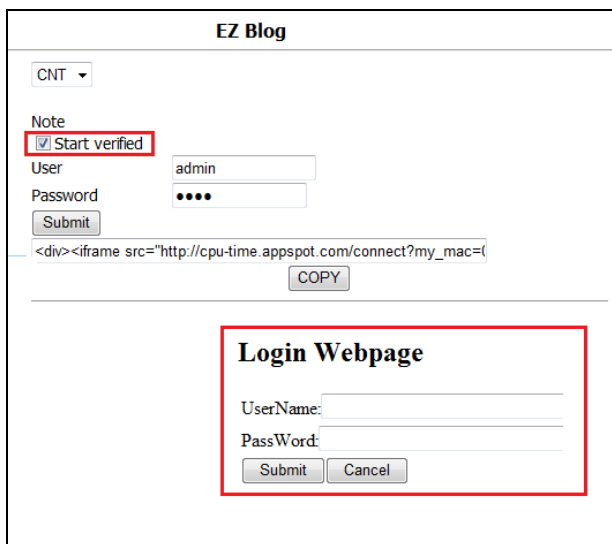
`<div><iframe src="http://cpu-time.appspot.com/connect?my_mac=`

2011/03/14 14:44

- 1.) After you have enabled the GAE feature, click on the copy button of EZ Blog by pressing the copy button.
- 2.) Then paste the code into your blog or website.

If user verification is needed you can do the following:

- 1.) Check in the box that says start verified.
- 2.) Type in a preferred login and username.
- 3.) Then hit the submit button.
- 4.) On the bottom where you can preview the image you will see that it will show a login screen.



EZ Blog

CNT ▾

Note

☒ Start verified

User

Password

`<div><iframe src="http://cpu-time.appspot.com/connect?my_mac=`

Login Webpage

UserName:

PassWord:

- 5.) Then hit the copy button and paste the code that you have copied into your blog or website.

My Web

Aviosys IP Kamera 9070

2011/03/31 18:36:21

Aviosys

HD ready 720p

My Web EZ Blog Supports iPhone & Smartphone

We Know IP!

How To Section

Click on the links below to find more information on how to use your new IP Kamera 9070 device.

How to Use My Web

My Web takes customization of your IP Kamera to the next level. View this short tutorial on how My Web can work for you.

M-JPEG MPEG-1 MPEG-2 STOP

Recording Start Record Stop Snapshot About Us

Create, Customize, & Express with My Web Technology

My Web technology, allows you to easily setup your own site for your IP Kamera device. Create Customize and Express with My Web Technology

The My-Web functionality will make your IP Kamera more than just a surveillance tool. Now you can use it to promote your company, restaurant, business, school, and etc. With some basic website skills or tools any can make a My Web site.

Turning On My Web

Enable My Web:	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Login Required:	<input checked="" type="radio"/> ON <input type="radio"/> OFF

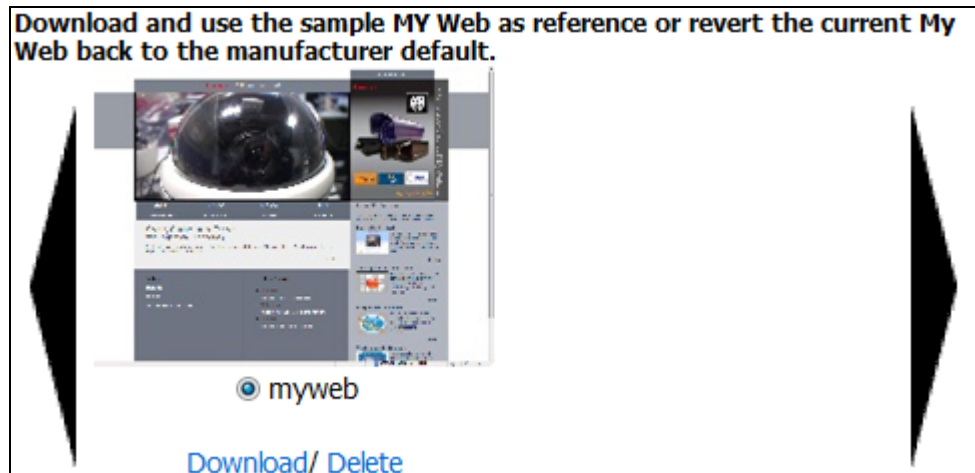
Enable my web button:

The enable My Web button will activate the My Web functionality. Once enabled every time the device is accessed it will be set to the My Web Page.

Login Required:

The login required will require your My Web users to login to the device before being able to use it. This is a way to keep unwanted viewers from entering the My Web

How to use my WEB



1. Download sample.
2. Save the zip file to the location .
3. Press browse, and select the zip file you download.
4. Press upload and send the zip file to 9077SPD-I/O web.
5. Confirm setting .

*** If familiar with webpage language, you can change the webpage in zip file to your own webpage. ***

Setting up My Web

To setup My Web you can download the My Web file from the 9077SPD-I/O.

- 1.) Click on the Download Default Page.
- 2.) Save the Zip file to a location where you can edit it
- 3.) Extract the file functions.js
- 4.) Start creating a My Web and be sure to include the functions.js into your code. (Note: Do not include folders within the webpage.
- 5.) After you have created the webpage, make sure to create a Zip file. Zip up the file and

Returning to default My Web page

If you would like to return your 9077SPD-I/O to the default My Web page click the default My Web Page button. This will reset the current My Web to the original manufacturer default.

Using My Web

To use the My Web feature:

- 1.) Use IP Edit and directly log into the IP camera.
- 2.) The device will open the root page of the 9077SPD-I/O to the My Web page.
- 3.) If you would like to return to the normal administrator page for the 9077SPD-I/O you can login to the admin site.

For Example:

9077SPD-I/O IP Address: 192.168.12.111 **Port:**8080

Then on the web browser type in the following

<http://192.168.12.111:8080/index.htm>

RSS

RSS

Setup the following before using RSS feature:

- 1.) Port forwarding the 9070 on the local router.
- 2.) DynDns settings must be setup in the router.
- 3.) Enter the DynDns address then hit submit for the correct RSS link.

For more information please view the manual

Rss Enable: ☐ ON ☒ OFF

Subscribe in a reader

RSS <http://192.168.100.20/rss20>

Dyndns: e.g. 9070.dyndns.com:8088

The RSS feature of the 9077SPD will allow the user to be constantly informed about the device. Using RSS any snapshot, motion detection, scheduled recording will notify the user and can also be accessed

***Notice: User need to register in DDNS ***

In the Dyndns section, type in the Dyndns that you register from www.dyndns.com and add a /rss20.

Guestbook



The guestbook feature is new feature to IP camera which allows the you to interact with other people who you have gave access to your device. Currently this feature is just for surf pop interaction


Simply type in your name, email and message then hit the post button to send the message on the guestbook.


IF you click on the  you can see the log of the messages.


Guestbook Need Internet

IPCAM9070 Message Board









Schedule Record – Upload Via FTP: Saves schedule recordings into FTP
Schedule Record – Save into SD Card: Saves schedule recordings into SD Card
Schedule Record – Upload via E-mail SMTP: schedule recordings into e-mail

Alarm

Motion Detection

Motion Detection

Setting

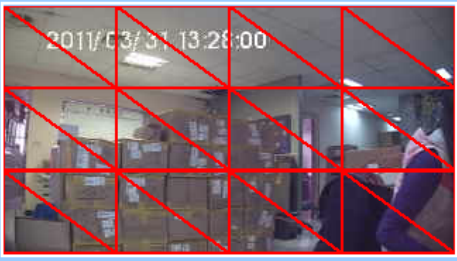
- Snapshot Path
- File Setting
- FTP
- SD Card
- Net Drive
- E-mail SMTP
- EZ Blog
- Media Player
- My Web
- RSS
- Guestbook

Schedule Record

- Schedule
- Enable Schedule Record

Alarm

- Motion Detection
- Enable Alarm



Click the right mouse button to show the popmenu.
Save the setting after you finish editing.

Motion Detection: ☒ Enable ☐ Disable

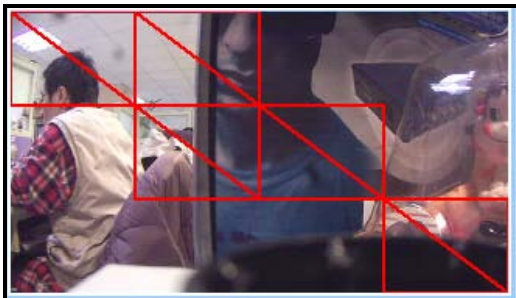
Mode: Indoor

Sensitivity : ☒ Lowest ☐ 50 (Customized Threshold)

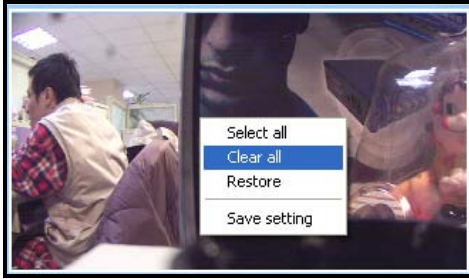
Submit

To enable motion detection:

- 1.) Select Enable in the motion detection option.
- 2.) The Mode: Can be set for indoors or outdoors. Indoors will have a more sensitive motion detection setting while outdoor will be less sensitive.
- 3.) Select the sensitivity of your choice
 - a. You can pick from Lowest, Low, Medium, High, Highest
 - b. You can also customize your own threshold from (1-99)



- 4.) Once you have set your settings on the window screen click on the picture where you want the motion to be detected. Double click on the selected areas to remove the choice.



- 5.) You can right click on the window screen for more options
- 6.) Once your settings have been set hit the submit button to save all changes.

Enable Alarm

Alarm Application Enable Setting

Setting

- [SnapShot Path](#)
- [File Setting](#)
- [FTP](#)
- [SD Card](#)
- [Net Drive](#)
- [E-mail SMTP](#)
- [EZ Blog](#)
- [Media Player](#)
- [My Web](#)
- [RSS](#)
- [Guestbook](#)

Schedule Record

- [Schedule](#)
- [Enable Schedule Record](#)

Alarm

- [Motion Detection](#)
- [Enable Alarm](#)

Connection Lost

☐ Enable Alarm - Save Into [SD Card](#)

Motion Detection

☐ Enable Alarm - Upload Via [FTP](#)

☐ Enable Alarm - Save Into [SD Card](#)

☐ Enable Alarm - Save Into [Net Drive](#)

☐ Enable Alarm - Upload Via [E-mail SMTP](#)

Recording Time: 4 seconds

☐ Alarm Recording Buffer

Buffer Time : 10sec

(Note: For Alarm Recording Buffer to work correctly an alarm above must be activated.)

Enable Alarm – Lost Ethernet Connection: Save into [SD Card](#):
 When Ethernet connection is lost the device will automatically save into the SD card. Saving a backup.

Enable Alarm - Upload [FTP](#)
 When motion is detected, the IP Kamera 9077SPD-I/O will upload files to the selected FTP server.

Enable Alarm - Save Into [SD Card](#)
 When motion is detected, the IP Kamera 9077SPD-I/O will upload files to the SD card.

Enable Alarm – Save [Net Drive](#)
 When motion is detected, the IP Kamera 9077SPD will upload files onto the Network Drive

Enable Alarm – Save [SMTP](#)

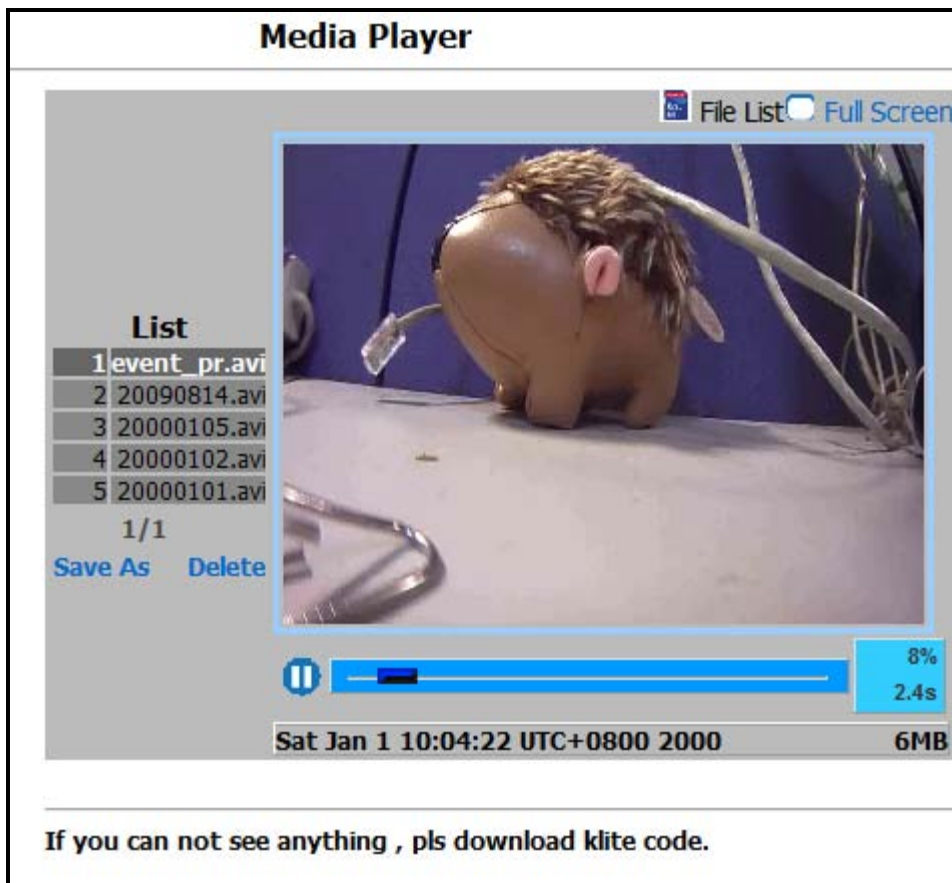
When motion is detected, the IP Kamera 9077SPD-I/O will send files to E-mail.

Recording Time: Set the duration of time you would like the IP Kamera 9077SPD-I/O to record when alarm is set off.

Enable Alarm Recording Buffer: The alarm recording buffer allows the camera to the selected amount of buffer time before an alarm has been detected. This allows the IP Kamera 9077SPD-I/O to start recording before and after motion has been detected.

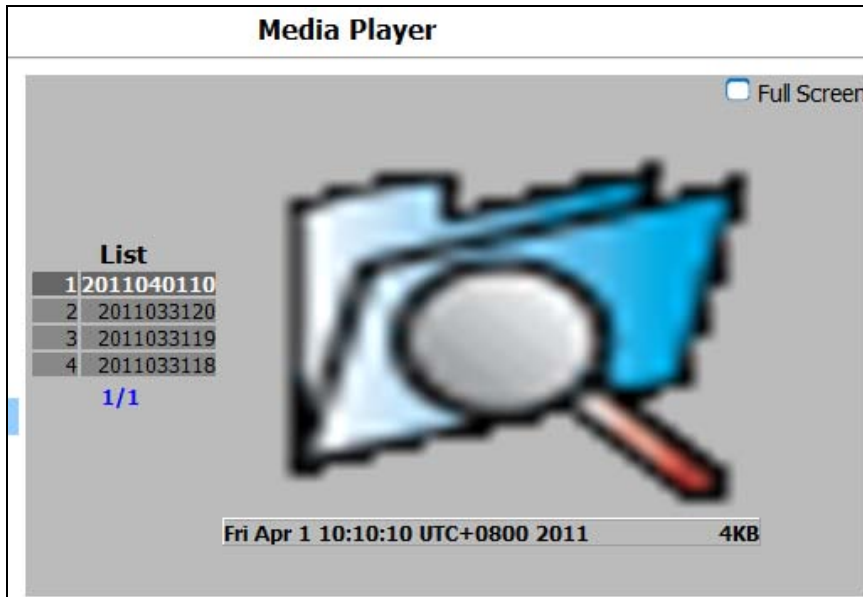
You can select the amount of buffer time you would like the 9077SPD to save for these pre-recorded videos.

Media Player

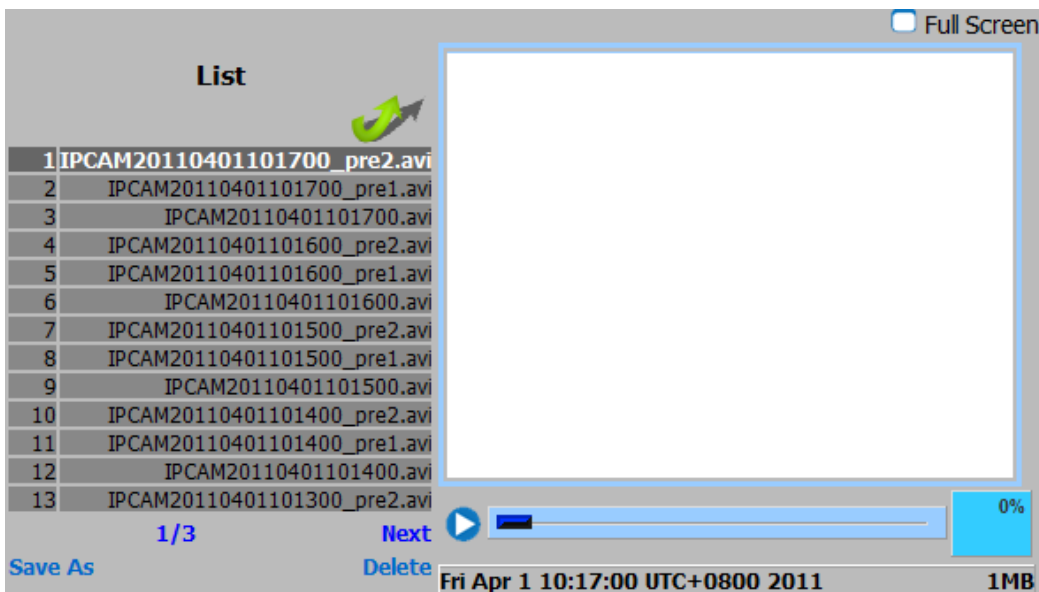


The media player is a convenient way to see what has been recorded into your SD card. From here you can view pictures or videos that you have recorded.

The media player will separate the recordings into different folders where the files will be stored.



In these file folders you will see that your files are labeled by Year/Month/Day/Time. Also you may see some files that have a pre at the end of the file name. This is from the prerecording technology which allows you to record a specific amount of time before and after motion detection has been activated.



To Play Media Player Files:

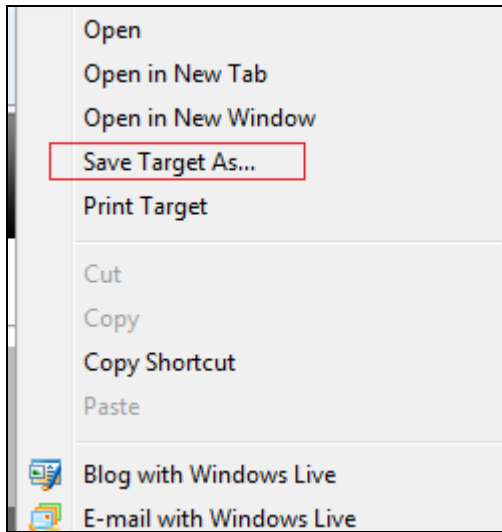
Simply click on the file that you would like to view and hit the play button.



While watching the video you can zoom in by clicking on your left click of the mouse and zooming out by clicking on the right click.

To save the files:

1.) Select the file that you would like to save, then right click on the save as button and select, save target as.



2.) Then select where you would like the file to be stored.

View in Full Screen:

To view the IP Kamera in full screen model you will need to press the Full Screen mode.



Logout

When you are done use the IP Kamera 9077SPD-I/O the logout function allows you to easily logout of your device. This ensures that anyone who uses the device after you will need to re-login to the IP Kamera.

Simply just click on the logout button on the bottom corner.



7.) Controlling the Device

CGI HTTP Commands

Http commands are command lines that execute commands to the device from a web browser, software, or code. The basic commands are provided below.

There are two ways to input http commands with authorization required

Password in http:

<http://login:password@ipaddress:port/command>

Password not in http:

<http://ipaddress:port/command>

Note: If using password not in http: command the browser asks for the login and password.

Snapshot Command:

The snapshot command takes a snapshot of the camera in the current view.

<http://ipaddress:port/snapshot.cgi>

Ex. http command:

<http://192.168.100.50:85/snapshot.cgi>

Change Name:

This command changes the name of the IP Kamera 9077SPD-I/O

<http://ipaddress:port/vb.htm?cameratitle=name>

Ex. http command:

http://192.168.1.192/vb.htm?cameratitle=test_9077SPD-I/O11

Change IP Address:

This command changes the IP Address of the IP Kamera 9077SPD-I/O

<http://ipaddress:port/vb.htm?internetip=ipaddress>

Ex. http command:

<http://192.168.1.192/vb.htm?internetip=192.168.1.191>

Change Port:

This command changes the Port of the IP Kamera 9077SPD-I/O

<http://ipaddress:port/vb.htm?httpport=portnumber>

Ex. http command:

<http://192.168.1.192/vb.htm?httpport=1025>

Change Subnet Mask:

This command changes the Subnet Mask of the IP Kamera 9077SPD-I/O

<http://ipaddress:port/vb.htm?subnetmask=subnetmask>

Ex. http command

<http://192.168.1.192/vb.htm?subnetmask=255.255.0.0>

Note: Default subnet mask is 255.255.0.0

Change Gateway:

This command changes the gateway the IP Kamera 9077SPD-I/O.

<http://ipaddress:port/vb.htm?gateway=gatewayaddress>

Ex. http command

<http://192.168.1.192/vb.htm?gateway=192.168.1.1>

Change DNS:

This command changes the gateway the IP Kamera 9077SPD-I/O.

<http://ipaddress:port/vb.htm?dnsip=dnsipaddress>

Ex. http command

<http://192.168.1.192/vb.htm?dnsip=168.95.1.1>

MJPEG Streaming

This command integrates streaming data into a software, website, or any other application.

<http://ipaddress:port/ipcam/mjpeg.cgi>

Ex. http command

<http://192.168.1.192/ipcam/mjpeg.cgi>

Pan / Tilt Controls

Basic Speed

Slowest

http://ipaddress:port/vb.htm?ptz_rotate_speed=1

Slow

http://ipaddress:port/vb.htm?ptz_rotate_speed=17

Normal

http://ipaddress:port/vb.htm?ptz_rotate_speed=32

Fast

http://ipaddress:port/vb.htm?ptz_rotate_speed=48

Fastest

http://ipaddress:port/vb.htm?ptz_rotate_speed=63

Move Up

Step:

<http://ipaddress:port/vb.htm?aptz=Up:0>

Continue:

<http://ipaddress:port/vb.htm?aptz=Up:1>

Move Down

Step:

`http://ipaddress:port/vb.htm?aptz=Down:0`

Continue:

`http://ipaddress:port/vb.htm?aptz=Down:1`

Move Left

Step:

`http://ipaddress:port/vb.htm?aptz=Left:0`

Continue:

`http://ipaddress:port/vb.htm?aptz=Left:1`

Move Right

Step:

`http://ipaddress:port/vb.htm?aptz=Right:0`

Continue:

`http://ipaddress:port/vb.htm?aptz=Right:1`

Stop Command

`http://ipaddress:port/vb.htm?aptz=Stop:0`

8.) Using RTSP with VLC

Before Setting up VLC: Make sure that the 9077SPD-I/O is set to be the DMZ host on the router that you are using, please refer to the routers manual on how to accomplish this.

How to setup VLC media player & Open a network stream

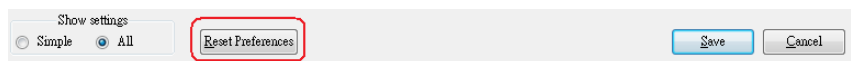
Real Time Streaming Protocol (RTSP) gives the device another way to stream live video. Using programs that support RTSP, you can broadcast the videos from the 9077SPD-I/O live.

Note: To access the device from outside the network. Please make sure of the following:

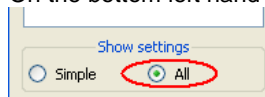
9077SPD-I/O should be set to DMZ host,

or mapping router's TCP ports 554 and 8554 to 9077SPD-I/O, preferably at the same time mapping UDP port 6970-9999

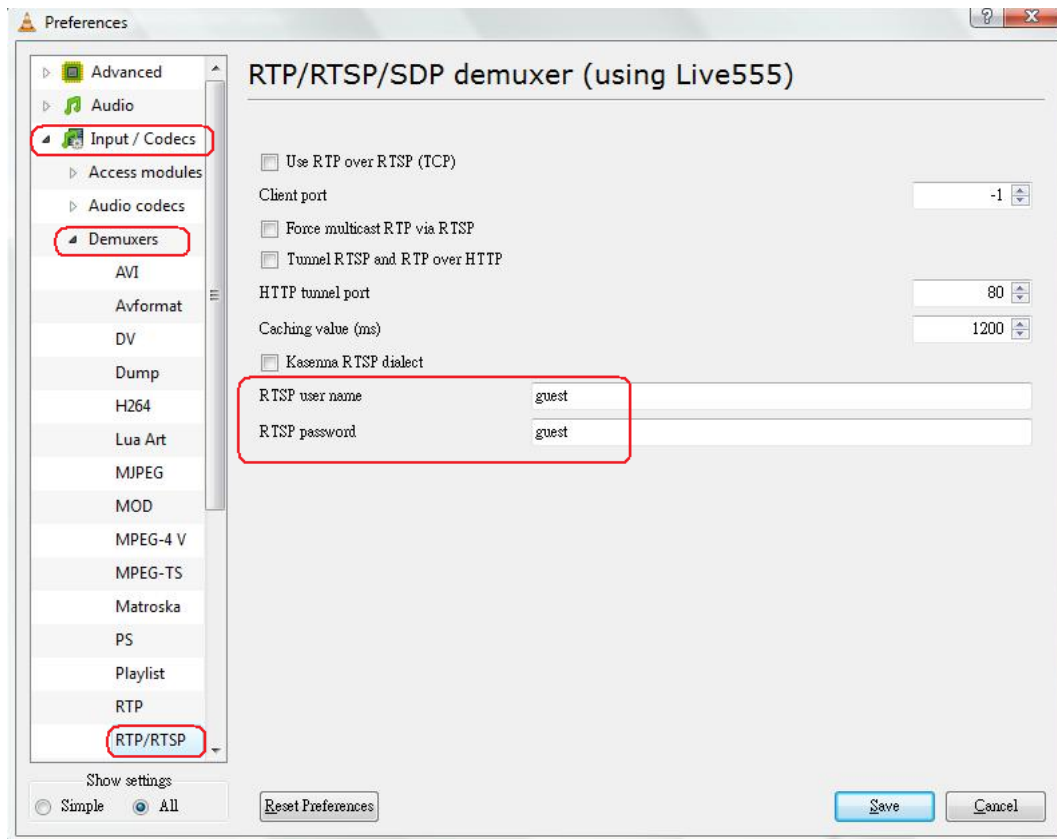
- 1.) Open VLC media Player
- 2.) Click on Tools > Preference
- 3.) On the bottom of the screen click the Reset preference button.



- 4.) On the bottom left hand side of VLC select the all under the show settings area.



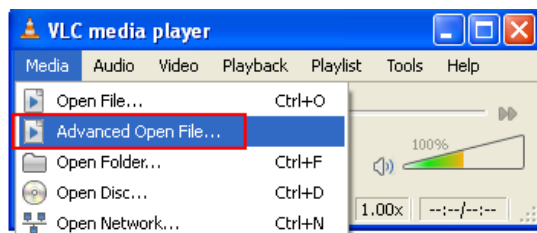
- 5.) Then in the left panel select Input / Codecs > Demuxers > RTP/RTSP and type in the **RTSP user name** and **RTSP password**.



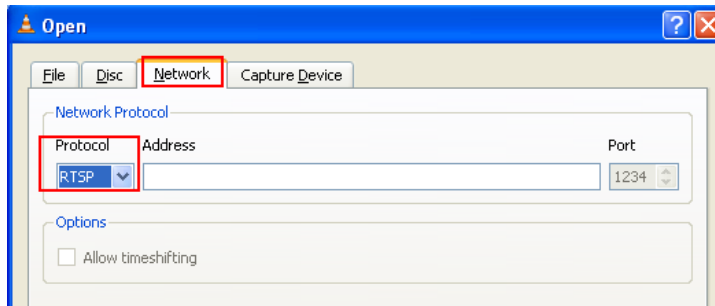
6.) Check the Cache value. *For low latency, it should be 70~80 based on PC's performance.*
 Note: If the video is not smooth, set the caching value from 150~1200. This problem could be due to too much congestion, busy pc, and etc.

7.) Save the new settings

8.) Then go back to the VLC media player and go to Media > Advance Open File

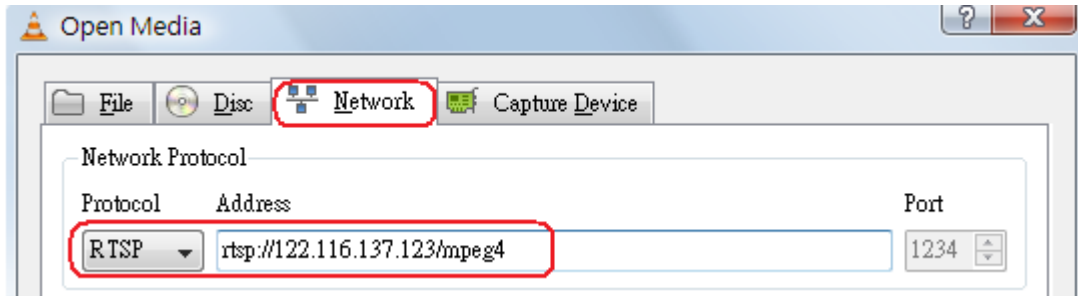


9.) Next select the network tab and under the protocol select RTSP.

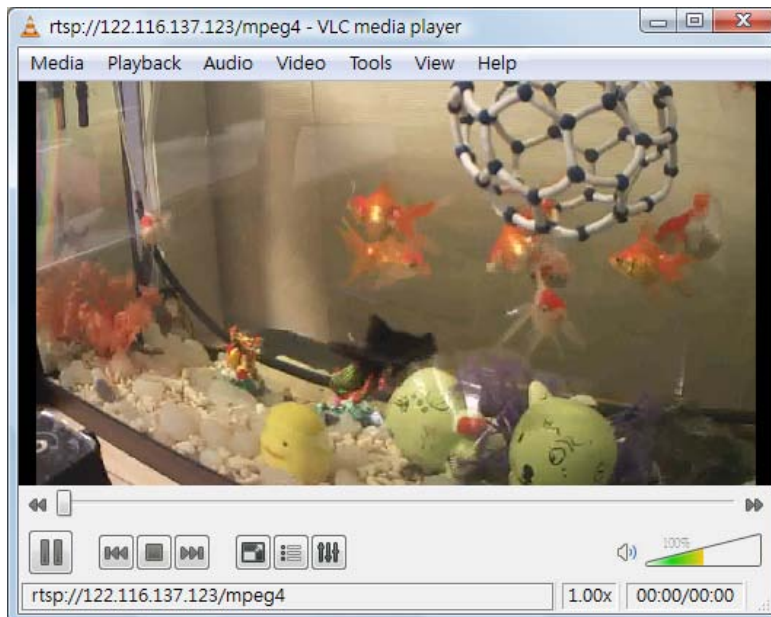


- 10.) Type in the RTSP address of your device
For Mpeg4 Stream1 : rtsp://<IP Address>/mpeg4
For Mpeg4 Stream2 : rtsp://<IP Address>:8554/mpeg4

Example: rtsp://122.116.137.123/mpeg4



- 11.) Hit the play button and wait a few seconds for the program to start streaming.



9.) Additional Software

Surf 16CH

CNT makes connecting to the IP Kamera 9077SPD-I/O a very simple task. Surf 16 CH a multi-device DVR monitoring software easily allows the user view the 9077SPD-I/O.
Follow these simple steps:

MAC Address

There are two ways to find the MAC address in IP Edit .

***Note: IP Server must be enabled on the device's webpage. By default IP Server is enabled.**

Find MAC Address in LAN Using IP Edit

- 1.) In IP Edit , highlight the device that is being used. On the right side of IP Edit the MAC Address for CNT will be listed.

***Note: Make sure when typing in the MAC address to leave out the “:”**

Local Devices

Sample Name.....	192.168.100.20
SL-9060SL3.....	192.168.100.203

REF

Name	Sample Name
Gateway	192 . 168 . 100 . 1
IP Address	192 . 168 . 100 . 20
Netmask	255 . 255 . 255 . 0
HTTP Port1	80
HTTP Port2	0
MAC	00:92:d0:d0:12:08

Find MAC Address in WAN Using IPService on IP Edit

- 1.) Find the MAC Address through the internet, Open IP Edit and hit the connect button on IP Service.
- 2.) Then Type in the name of the device, in this case it is “Sample Name”, then hit the search button.
- 3.) Device will be listed and the MAC address should be displayed on the screen. Copy down the MAC address and use it to connect via CNT.

Add device using CNT

- 1.) On Surf 16 Ch DVR software, right click on the screen on one of the windows and select Add Camera

Surf 16 Ch

Right-click context menu:

- + Add Camera
- X Close Camera
- Rotation 0
- Rotation 90
- Rotation 180
- Rotation 270
- Full Screen
- Search Camera
- Save Setting
- Load Setting

AddCamera dialog box:

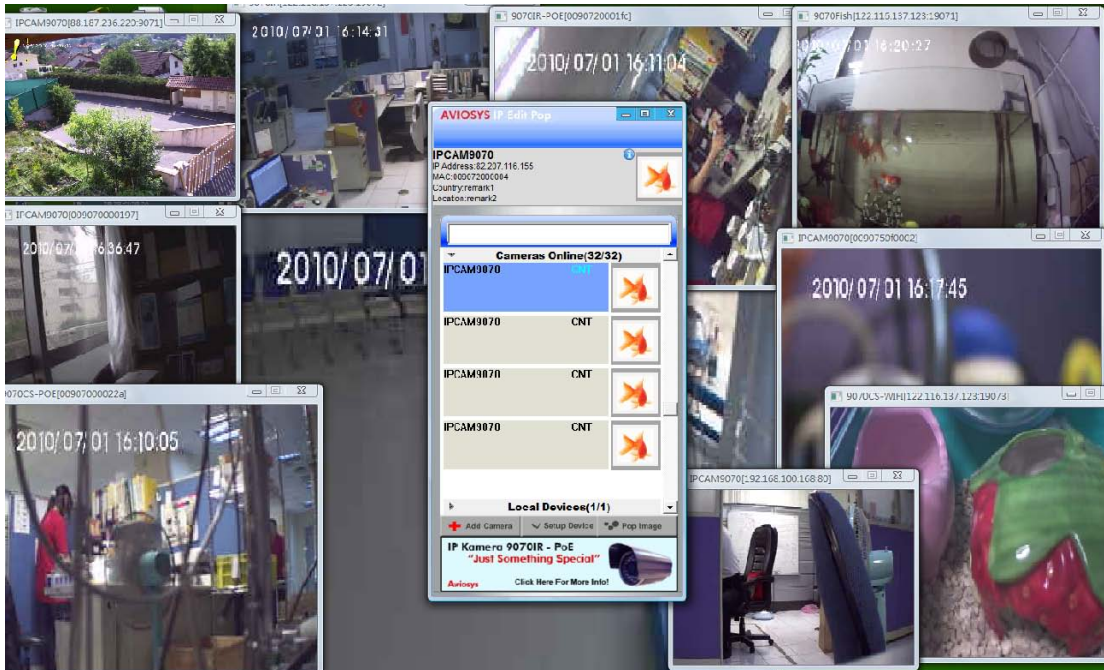
IP Address:	
Port:	80
MAC:	009d0d01208
CameraName:	
UserName:	admin
Password:	*****
<input type="checkbox"/> NormalQuality	<input type="checkbox"/> Rotation 180
<input type="checkbox"/> MD Snapshot	Interval(sec): 0
<input type="checkbox"/> MD Start Recrd	Duration(sec): 0
Add	

- 2.) Then under the section labeled **MAC:** Type in the MAC address.
- 3.) Do not forget to enter the password and login.

Surf Pop

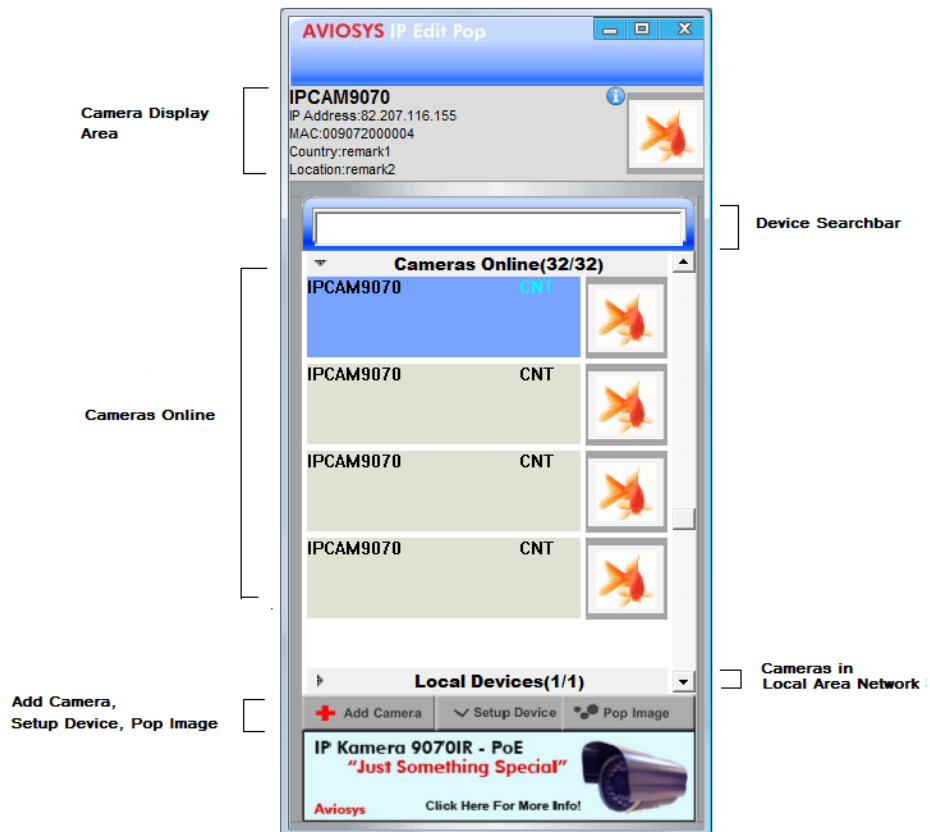
Surf Pop is a new and innovative way for multi camera monitoring and sharing. Instead of the traditional way of monitoring surveillance, Surf Pop brings a convenient and fun way to view all your cameras through the internet or within the local area network. Now you can share your IP Kamera with your friends, clients, relatives, and to anyone who is interested in seeing your IP camera. You can also use Surf Pop to monitor your IP Kamera's from all over the world as a multi camera monitoring system.

With this software you can easily connect to your device using CNT technology from Aviosys. CNT or “Cross Network Technology” allows users who may not be as tech savvy as others to easily view his / her IP Kamera without having to port forward the device through the firewall. This can save one so much time and efforts in setting up the device and allow the user to experience the camera instead of



Surf Pop Interface

The Surf Pop Interface is a very easy to use and familiar in format. Very similar to many chat programs like AIM or Skype, Surf Pop allows you to easily manage your IP Kamera's.



The Surf Pop interface consists four major parts which consists of the following:

Camera Display Area: The Camera display section will display information on the current camera that is chosen.

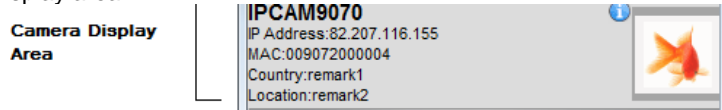
Device Search bar: The device search bar is a quick and easy way to find your cameras simply by typing in the device name of the device you are looking for.

Cameras Online: Cameras online are the cameras that the user has added from outside the network.

Local Devices (Cameras in the local Area network): Local devices are the cameras that are detected within the Local Area Network.

Camera Display Area

The camera display area will show important information regarding the device that you are viewing. Once you have clicked on a camera in your list the corresponding information will be shown in the camera display area



In this area you will find information on the camera including

- **IP Address:** The IP Address will show the actual IP of the device.
- **Mac Address:** The mac address is a unique identifier for the device.
- **Country:** If a country has been set it will show up here
- **Location:** If the location has been set on the IP Kamera it will show up here.

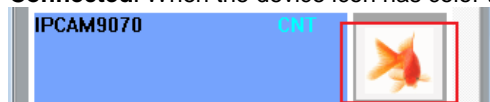
To fill in the information correctly, you will need to click on the setup device button and populate the information in Surf Pop.

Setup Device

Camera Online / Offline

Surf pop was designed so that you can constantly monitor the status of your IP Kameras and view them. From Surf Pop main window you can see whether your devices are connected.

Connected: When the device icon has color that means that the device is connected.




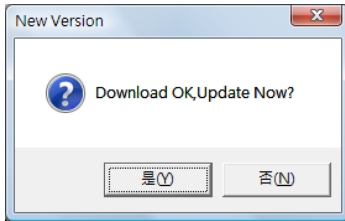
Disconnected: In the case that the icon picture is black and white, this means at the moment the device may not be online at the moment or has officially be disconnected.



Update Icon

The update icon will appear when there is a new update available for surf pop.

Simply just click on the  button and surf pop will ask if you would like to update the device.

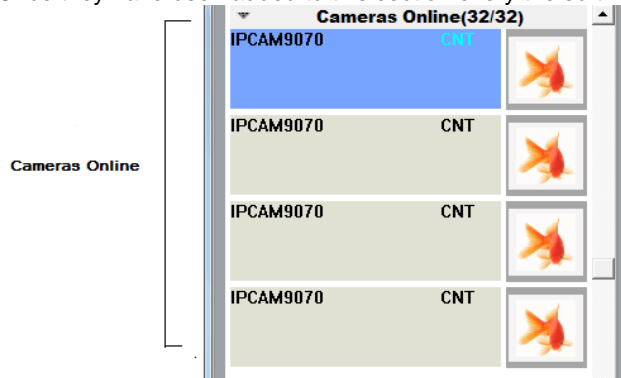


Once the update has been confirmed Surf Pop will automatically update the program itself

How to setup Surf Pop

Cameras Online

The camera online section allows you to see the cameras that you have added from outside the network. Once they have been added to this section every the software is open the devices will stay in this area.

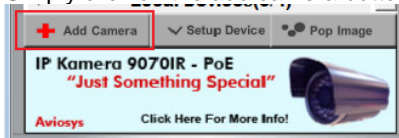


Cameras online is basically all the cameras that you added that is outside the network. Any camera that was added using the IP Service feature

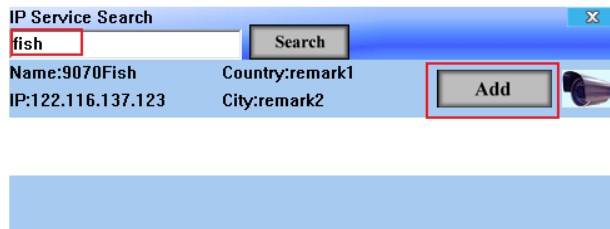
Adding a device

Adding a camera to Surf Pop is fairly easy. Basically once your device is setup and connected to the web you can search for your device through the IP Service feature that is built into the add device button.

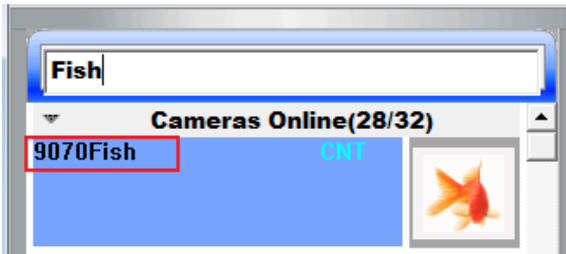
- 1.) Simply click on the add camera button on the bottom of the device



- 2.) In the search field on the top left type in the device name that you have selected and then click the add button to add the device to your list.



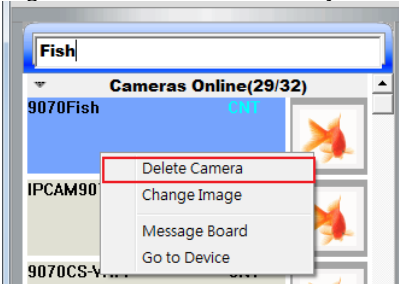
- 3.) Then once the device has been added you can find it in the online cameras section.



Removing a device

To remove a device from Surf Pop all you need to do is go to the online cameras section and find the device that you would like to remove. Then do the following:

- 1.) Right click on the camera that you would like to remove and right click.



- 2.) Then select the option that says delete camera.

Local Devices

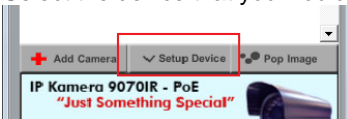
The local device section is where you will find devices that are located in your Local Area Network or (LAN). These devices will show up automatically when a device has been detected. Once detected you can connect to the device or setup the device from this section.

Setting up a device

Surf pop was designed to create a quick user experience with the software. Any 9077SPD IP Kamera's that is on manufacturer default will be able to automatically be detected by surf pop and can easily be seen without any setup. Simply just press and play.

But for people who have special network requirements or need to setup their device, you will need to do the following:

- 1.) Select the device that you would like to setup and click on the setup device button.



- 2.) Then type in all the appropriate information including IP Address, Port, Username, Password, Country and Location and hit submit

Note: This can only be done with Administrator rights. So if you are login in with a guest account no changes can be made

IP Address:	192.168.100. 25
Port:	80
MAC	0090710001e9
Mask:	255.255.255.0
Gateway:	192.168.100.1
Username:	admin
Password:	*****
Device Name:	IPCAM9070
Country:	
Location:	

Submit

- 3.) Then to see if the device was correctly setup, simply double click on the device in surf pop and a pop window will appear.

Using Surf Pop

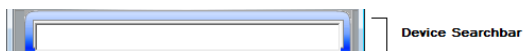
After you have finished setting up the surf pop it is time to use surf pop. Simply just click on click on the devices that you would like to pop out and surf pop will do the rest.

How to Pop?

Once you have setup the devices and added the cameras that you would like to connect to. You can start Surf Popping your IP Kameras. Simply just double click on the IP Kamera in the Surf Pop camera list or click once and then click on the Pop Image button.

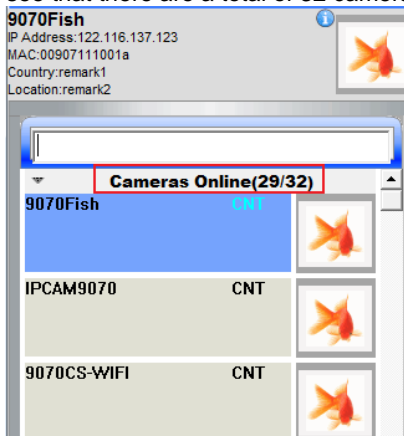
For example:

Device Search bar

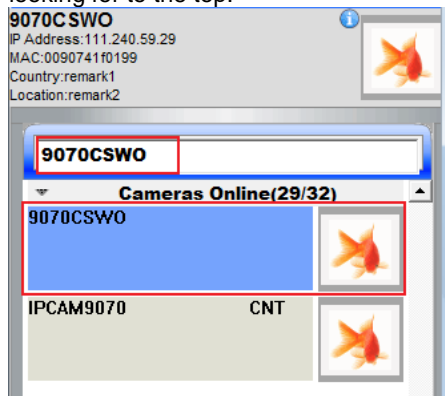


The search bar allows the user to easily search for devices that on in Surf Pop's list. Simply just type a name for your device and any device with the same name or close will be filtered out.

For example: If I wanted to search in my list for a camera named 9070CSWO. In the picture below you can see that there are a total of 32 cameras 29 that is connected.



Now it would be hard to scroll down the list finding the name of the camera you are looking for so simply use the device search bar and type in the name 9070CSWO and Surf Pop will bring the camera that you are looking for to the top.

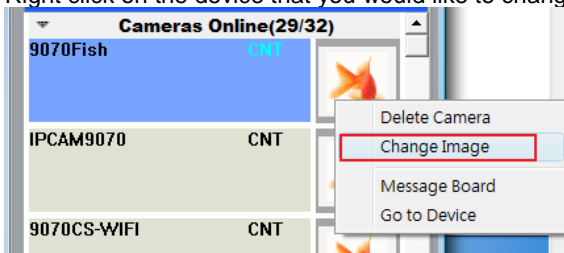


Changing the Icon Picture

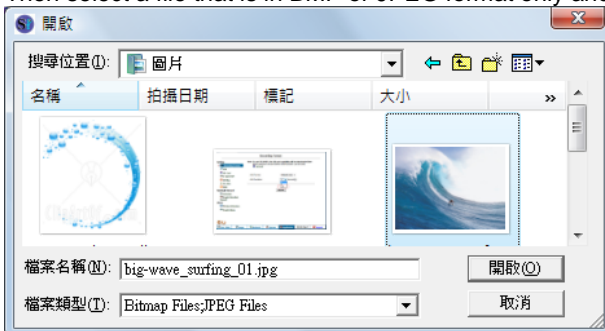
Changing the Icon picture allows you to customize each camera to have it's own different icon. This way you can easily recognize the device that you have selected

To change the Icon on the device:

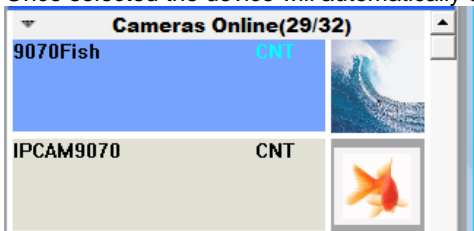
- 1.) Right click on the device that you would like to change the icon image for.



- 2.) Then select a file that is in BMP or JPEG format only and less that 2MB then click okay



- 3.) Once selected the device will automatically change the icon image to the one you have selected.



Zooming into the image

With surf pop you can also easily zoom into the pop windows that you are looking at. Simply just click on the image with the left & right mouse and the device will use the digital zoom feature to zoom in and zoom out.

Left Click: Will zoom into the picture

Right Click: Will zoom out of the picture

Left Double Click: Will zoom to the largest possible zoom

Right Double Click: Will zoom to the smallest possible zoom.

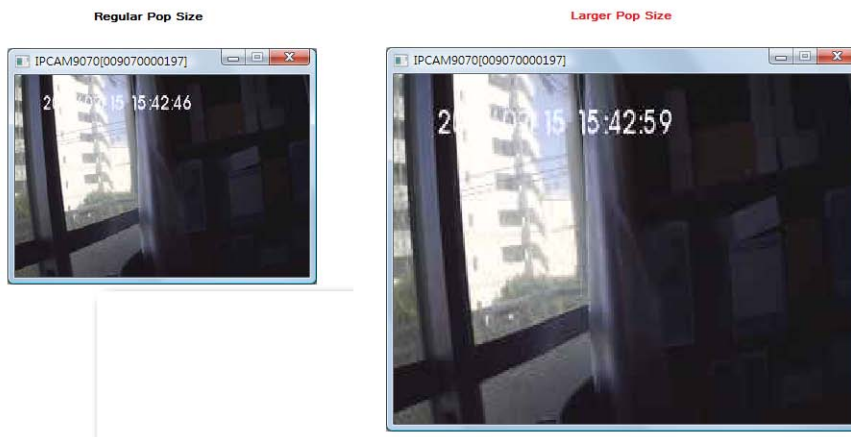
See below how zoom might be used:



Enlarging Pop Windows

With Pop surf the user can enlarge the screen of the video stream. Basically all you need to do is to put the mouse cursor on the bottom or edge of the video screen then left click and drag. This will enlarge the view of the video that you are viewing.

Please see the picture below for more details:

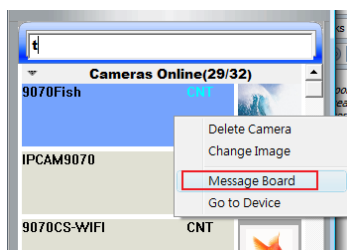


Message board

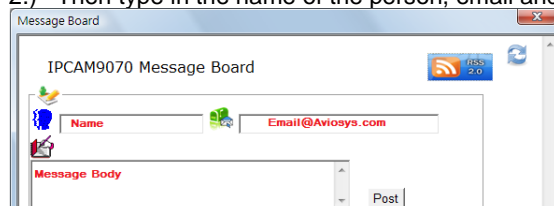
The message board section allows users to interact with other users easily on surf pop. Now you can share your information or have people interact with your camera as well.

To leave a message on a message board of the device:

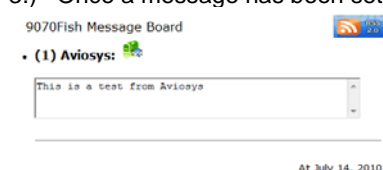
- 1.) Right click on the device and select message board.



2.) Then type in the name of the person, email and the message.



3.) Once a message has been set it will look like the picture below.

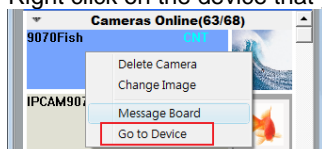


Go to Device

So if for some reason, you need to connect to the device directly to modify some of the settings on your IP Kamera. You can use the **go to device** button to directly open a internet browser and go to the camera.

To do this follow the following instructions:

1.) Right click on the device that you would like to connect to and select go to device.



2.) Then enter the correct login and password into the internet browser to connect to the device.

10.) Frequently Asked Questions (F.A.Q)

Q1: Why can't I view the video files that I have recorded, nothing is playing?

Ans: VLC Codec, download VLC Codec from their website at: <http://www.videolan.org/>

Q2: How do I reset the device to manufacturers default values?

Ans: On the back of the device there is a reset button, hold down the reset button for more than 7 seconds. Then give the 9077SPD-I/O a 1 minute to restart. Once the device has restarted it will be set back to manufacturer default settings.

Default Values

Default IP: 192.168.1.168 (When 9077SPD-I/O is connected to PC directly)

Default Login: admin

Default Password: 12345678

Q3: Why does the device on EPTZ change my video mode?

Ans: When EPTZ is activated Video Codec mode will be switched to MPEG4 & M-Jpeg when disabled the codec will be set on Mpeg1, Mpeg2, & M-Jpeg.

Q4: How do I take snapshots using the EPTZ function?

Ans: When using EPTZ function remember that only the snapshot functions works with the EPTZ controller. When using the mouse to Pan Tilt and Zoom into the picture the snapshot button will not capture the screen correctly. A way to take a picture of the screen using the EPTZ with the mouse is to click on the print screen button on the computer being used.

Q5: Why is the RTSP not connecting to my VLC player or Quick time Player?

Ans: To use the RTSP functionality it is necessary to first set your 9077SPD-I/O-Lite to be the DMZ host in your network. Also be sure to port forward your device at the following ports.

Port 554 for 1280 x 720P

Port 8554 for CIF format

Please refer to the routers manual on how this is setup

Q6: How do I improve the image quality on this device?

Ans: The Image quality of the 9077SPD-I/O is dependent on the bit rate of the device. With a larger bit rate the device will naturally create higher quality image, but this will affect the smoothness of the streaming when accessed through the internet. To find the most optimal settings for image quality and streaming smoothness, try different bit rate settings to achieve the best fit settings.

Q7: Why can't I control the Pan / Tilt on my 9077SPD device?

Ans: Check to see if your homing feature is on.

Q8: Why is my panorama mode overlapping many pictures and lagging?

Ans: Make sure that you do not have too many windows open, it will affect the speed and quality of the image.

11.) Customer Feedback

Your Feedback is definitely important for us to continue providing the great quality products and service that Aviosys has to offer. We definitely would like to know what you think about our products and how we can we can make your Aviosys experience even better.

Please email us at our service department at Service@Aviosys.com or visit customer feedback form at:

<http://spreadsheets.google.com/viewform?hl=en&formkey=dGowalg3UndrdTJHNUlxdlljQXI3Q2c6MA..#gid=0>

We are happy to serve you to the best of our ability and to provide an ongoing positive experience with Aviosys. Thank you for your support.